Electrical installation solutions for buildings
ABB Cylon®

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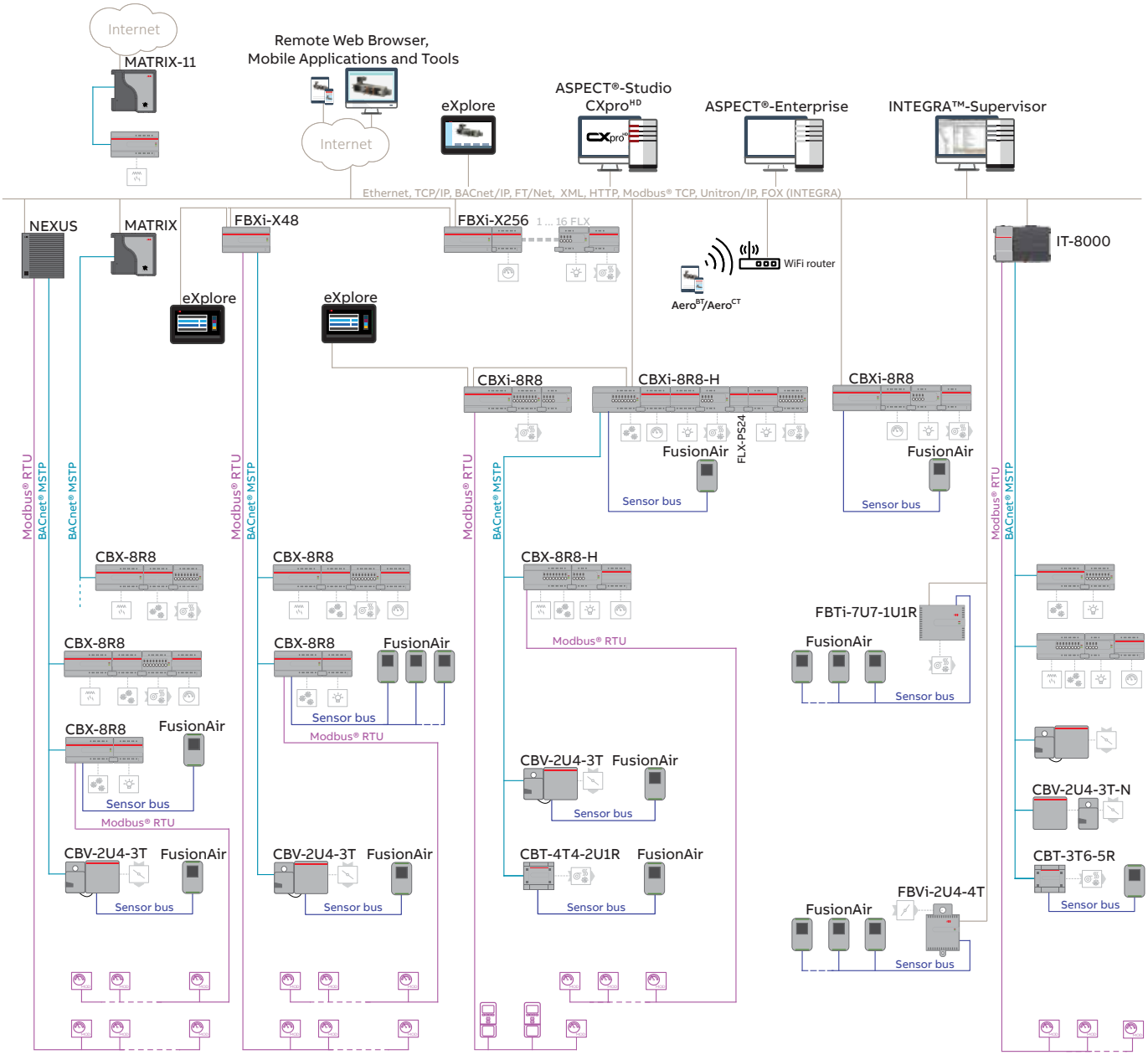
System Architecture



- FBXi / CBXi-8R8 / CBX-8R8
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- INTEGRA Series
- eXplore
- FusionAir Smart Sensor
- CBT-STAT
- UCU Room Display

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ASPECT® Control Engines (ACE) & Supervisor

Matrix Series

MATRIX Series

The MATRIX is an IoT (Internet of Things) embedded ASPECT® Control Engine designed to provide flexible site control applications for medium to large scale building automation systems. It can be used to connect with Cylon CB Series and AAM NB Series of BACnet® MS/TP field level controllers. The MATRIX supports serial communications protocols such as BACnet®, AAM PUP, and Modbus®. Additionally, TCP/IP communications using FT/Net, BACnet®, Modbus® and Cylon's Unitron (when used with the UC32.netK) protocols are available when using the RJ-45 connection.

Description	Order details	
	Type code	Order code
MATRIX ACE (ASPECT Control Engine) with embedded ASPECT runtime engine and web UI, includes 2 EIA-485 ports, configurable for 9.6 to 115.2 kbps, capable of supporting a 1 device (either MS/TP or TCP/IP) or 750 points. Support for 2 RS-485 protocols (BACnet MS/TP, Modbus RTU, AAM PUP or Teletrol TSC), and a maximum of 64 MS/TP devices per port. One RJ-45 10/100 MB Ethernet port with TCP/IP support for FT/Net, BACnet/IP, Modbus TCP and Cylon UC32.netK. Field upgrade-able to support a maximum of 2,500 points and 128 devices as a combination of either TCP/IP or MS/TP connections.	MAT-11	2CQG100106R1021
MATRIX ACE (ASPECT Control Engine) with embedded ASPECT runtime engine and web UI, includes 2 EIA-485 ports, configurable for 9.6 to 115.2 kbps, capable of supporting upto a total of 16 devices (either MS/TP or TCP/IP) or 750 points. Support for 2 RS-485 protocols (BACnet MS/TP, Modbus RTU, AAM PUP or Teletrol TSC), and a maximum of 64 MS/TP devices per port. One RJ-45 10/100 MB Ethernet port with TCP/IP support for FT/Net, BACnet/IP, Modbus TCP and Cylon UC32.netK. Field upgradeable to support a maximum of 2,500 points and 128 devices as a combination of either TCP/IP or MS/TP connections.	MAT-216	2CQG100102R1021
MATRIX ACE (ASPECT Control Engine) with embedded ASPECT runtime engine and web UI, includes 2 EIA-485 ports, configurable for 9.6 to 115.2 kbps, capable of supporting upto a total of 32 devices (either MS/TP or TCP/IP) or 1,250 points. Support for 2 RS-485 protocols (BACnet MS/TP, Modbus RTU, AAM PUP or Teletrol TSC), and a maximum of 64 MS/TP devices per port. One RJ-45 10/100 MB Ethernet port with TCP/IP support for FT/Net, BACnet/IP, Modbus TCP and Cylon UC32.netK. Field upgradeable to support a maximum of 2,500 points and 128 devices as a combination of either TCP/IP or MS/TP connections.	MAT-232	2CQG100103R1021
MATRIX ACE (ASPECT Control Engine) with embedded ASPECT runtime engine and web UI, includes 2 EIA-485 ports, configurable for 9.6 to 115.2 kbps, capable of supporting upto a total of 64 devices (either MS/TP or TCP/IP) or 1,750 points. Support for 2 RS-485 protocols (BACnet MS/TP, Modbus RTU, AAM PUP or Teletrol TSC), and a maximum of 64 MS/TP devices per port. One RJ-45 10/100 MB Ethernet port with TCP/IP support for FT/Net, BACnet/IP, Modbus TCP and Cylon UC32.netK. Field upgradeable to support a maximum of 2,500 points and 128 devices as a combination of either TCP/IP or MS/TP connections.	MAT-264	2CQG100104R1021
MATRIX ACE (ASPECT Control Engine) with embedded ASPECT runtime engine and web UI, includes 2 EIA-485 ports, configurable for 9.6 to 115.2 kbps, capable of supporting upto a total of 96 devices (either MS/TP or TCP/IP) or 2,000 points. Support for 2 RS-485 protocols (BACnet MS/TP, Modbus RTU, AAM PUP or Teletrol TSC), and a maximum of 64 MS/TP devices per port. One RJ-45 10/100 MB Ethernet port with TCP/IP support for FT/Net, BACnet/IP, Modbus TCP and Cylon UC32.netK. Field upgradeable to support a maximum of 2,500 points and 128 devices as a combination of either TCP/IP or MS/TP connections.	MAT-296	2CQG100105R1021
License file to upgrade any MATRIX ACE (ASPECT Control Engine). Adds support for an additional 8 devices or 250 points. Multiple MAT-LP-8 may be purchased to reach a maximum of 2,500 points and 128 devices as a combination of either TCP/IP or MS/TP connections.	MAT-LP-8	2CQG100101R1021
Charge for field upgrades or moving a licence to a different device when there is no associated hardware or software purchased.	MAT-LIC-CHG	2CQG103703S3021

ABB Cylon®

ASPECT® Control Engines (ACE) & Supervisor

NEXUS-3 Series

NEXUS-3 Series

The NEXUS-3 is an IoT (Internet of Things) embedded ASPECT® Control Engine designed to provide flexible site control applications for medium to large scale building automation systems. It can be used to connect with Cylon CB Series and AAM NB Series of BACnet® MS/TP field level controllers. The NEXUS-3 supports serial communications protocols such as BACnet®, AAM PUP, and Modbus®. Additionally, TCP/IP communications using FT/Net, BACnet®, Modbus® and Cylon's Unitron (when used with the UC32.netK) protocols are available when using the RJ-45 connection.

Description	Order details	
	Type code	Order code
NEXUS ACE (ASPECT Control Engine) with embedded ASPECT runtime engine and web UI, includes 2 RS-485 ports, configurable for 9.6 to 115.2 kbps, capable of supporting up to a total of 64 devices (either MS/TP or TCP/IP) or 4,000 points. Support for 2 RS-485 protocols (BACnet MS/TP, Modbus RTU, or AAM PUP). One RJ-45 10/100/1000 MB Ethernet port with TCP/IP support for FT/Net, BACnet/IP, Modbus TCP and Cylon UC.32 Net. Field upgrade-able to support a maximum of 10,000 points and 128 devices as a combination of either TCP/IP or MS/TP connections.	NEXUS-3-264	2CQG100111R2021
NEXUS ACE (ASPECT Control Engine) with embedded ASPECT runtime engine and web UI, includes 2 RS-485 ports, configurable for 9.6 to 115.2 kbps, capable of supporting up to a total of 128 devices (either MS/TP or TCP/IP) or 8,000 points. Support for 2 RS-485 protocols (BACnet MS/TP, Modbus RTU, or AAM PUP). One RJ-45 10/100/1000 MB Ethernet port with TCP/IP support for FT/Net, BACnet/IP, Modbus TCP and Cylon UC.32 Net. Field upgrade-able to support a maximum of 10,000 points and 128 devices as a combination of either TCP/IP or MS/TP connections.	NEXUS-3-2128	2CQG100110R2021
License file to upgrade NEXUS-264 ACE (ASPECT Control Engine). Adds support for an additional 16 devices or 1,000 points. Multiple NEX-LP-16 may be purchased to reach a maximum of 10,000 points and 128 devices as a combination of either TCP/IP or MS/TP connections.	NEX-LP-16	2CQG100101R2021
Charge for field upgrades or moving a licence to a different device when there is no associated hardware or software purchased.	NEX-LIC-CHG	2CQG103702S3021

ABB Cylon®

ASPECT® Control Engines (ACE) & Supervisor

ASPECT®-Enterprise

ASPECT-Enterprise

ASPECT-Enterprise is a server-based variant that provides all of the powerful features of ASPECT, but is installed on specified server hardware. As this solution is hosted by the end-user, it requires no proprietary hardware, but requires the purchase of ASPECT®-Enterprise software. This allows the ease of on-site installations and fewer restrictions on requirements. In addition, it integrates with popular Internet programs to allow end- users more freedom. With ASPECT®, your PC, tablet, or smart device can integrate with your building easily and efficiently.

Whether the platform is a server running VMware®, a standard server box or complex rack-mountable network appliance, ASPECT®-Enterprise provides the capability, security, and the specification to meet the requirements of almost any project at an affordable price.

Description	Order details	
	Type code	Order code
ASPECT-Enterprise software with support for 2 FT/Net connections (ASPECT Control Engines) or 15,000 points. Runs on VMWare. Field upgrade-able to support a maximum of 256 TCP/IP connections or 100,000 points.	ASP-ENT-2	2CQG103202S3021
ASPECT-Enterprise software with support for 12 FT/Net connections (ASPECT Control Engines) or 25,000 points. Runs on VMWare. Field upgrade-able to support a maximum of 256 TCP/IP connections or 100,000 points.	ASP-ENT-12	2CQG103201S3021
ASPECT-Enterprise software with support for 96 FT/Net connections (ASPECT Control Engines) or 50,000 points. Runs on VMWare. Field upgrade-able to support a maximum of 256 TCP/IP connections or 100,000 points.	ASP-ENT-96	2CQG103204S3021
ASPECT-Enterprise software with support for 256 FT/Net connections (ASPECT Control Engines) or 100,000 points. Runs on VMWare. Field upgrade-able to support a maximum of 256 TCP/IP connections or 100,000 points.	ASP-ENT-256	2CQG103203S3021

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ABB Cylon® ASPECT® Engineering

ASPECT®-Studio

ASPECT-Studio

ASPECT®-Studio provides a graphical programming tool experience like no other for configuring ASPECT® applications. Acting as an integrated development environment for ASPECT® products, ASPECT®-Studio contains a complete library of logical and graphical “widgets” representing the common tools that are used to engineer sophisticated control strategies for a complete control system and graphical user interface solution.

Using this highly intuitive software environment, users create and define all necessary elements for a project – including network device and point programming, global control sequencing, historical trending, alarming, scheduling, as well as rich graphical user interface pages. Rapid engineering capabilities can be leveraged to minimize labor intensive steps. This includes mass editing options, import and export of networked devices and points, and the ability to create custom Device and Point templates.

As a project is created, you have the ability to evaluate your work through each step of the engineering phase using simulated data, as well as the ability to communicate with defined networks, devices and their associated points. Complete testing prior to the deployment of a project can also be performed using a local simulation of the ASPECT® environment.

At commissioning time, ASPECT®-Studio reduces labor for technicians by automatically generating an HTML5 UI for all defined network devices, allowing smart phone and tablet users to gain access to the energy management system.

Description	Order details	
	Type code	Order code
ASPECT-Studio single user license (Software License Key). Download software from Cylon.	ASP-STU	2CQG103403S3021
Additional Software License Key for ASPECT-Studio. Download software from Cylon. Requires ASPECT-STUDIO.	ASP-STU-A	2CQG103404S3021
Renewal of an ASPECT-Studio licence, issued annually.	ASP-STU-AR	2CQG103407S3021
ASPECT-Studio Enduser Software License Key.	ASP-STU-EU	2CQG103401S3021
ASPECT-Studio Enduser Software License Key major release upgrade. Ie from ASPECT-Stuio v2.X to v3.X. Interim releases are free. Requires ASPECT-ENDUSER.	ASP-STU-EU-UPG	2CQG103402S3021

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ABB Cylon® ASPECT® Licence Upgrades

ASPECT®-Studio single user licence (Soft Licence)

ASPECT-Enterprise upgrades

Description	Order details	
	Type code	Order code
TCP Add License Pack. Adds support for 16 devices or 800 points of BACnet/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-16	2CQG103207S3021
TCP Add License Pack. Adds support for 32 devices or 1,600 points of BACnet/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-32	2CQG103209S3021
TCP Add License Pack. Adds support for 64 devices or 3,200 points of BACnet/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-64	2CQG103210S3021
TCP Add License Pack. Adds support for 128 devices or 6,400 points of BACnet/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-128	2CQG103206S3021
TCP Add License Pack. Adds support for 256 devices or 12,800 points of BACnet/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-256	2CQG103208S3021
Charge for Field License Upgrade/Change. Charged when license upgrade is not purchased at time of initial order. Used to move or change an existing license at the request of customer. Applies to all license changes for either Matrix, Nexus or ASPECT-Enterprise.	ENT-LIC-CHG	2CQG103701S3021
ASPECT-Enterprise license file to upgrade from ASPECT-ENT-12 (or lower) to ASPECT-ENT-96.	ENT-UP-96	2CQG103212S3021
ASPECT-Enterprise license file to upgrade from ASPECT-ENT-96 to ASPECTENT-256.	ENT-UP-256	2CQG103211S3021

ABB Cylon®

BACnet®/IP Main Plant Controllers

FBXi Series

FBXi Series

The FBXi Series is a freely programmable range of BACnet® Controllers with native BACnet/IP communications support. The controllers are BTL listed BACnet Building Controller (B-BC) and are ideally suited for a wide range of applications for intelligent control of HVAC equipment, and electrical systems including lighting control and metering applications. The FBXi Series controllers support multi-protocol communications simultaneously including BACnet/IP, BACnet MS/TP, Modbus® TCP and Modbus RTU.
Part of the Cylon® FLXeon Line of BACnet field controllers, the FBXi Series controllers feature support for up to sixteen FLX (Field Level eXpansion) series extension modules providing up to 256 points of control, and a dedicated input for Cylon® room sensors. FLX I/O expansion modules are available in a variety of options to allow maximum flexibility in achieving the required point configuration.

Description	Order details	
	Type code	Order code
BACnet/IP B-BC programmable controller for control and monitoring of small plant or HVAC equipment. Includes support for 32 Modbus (TCP or RTU) devices or 320 Modbus Points.	FBXi-X48	2CQG201018R1021
BACnet/IP B-BC programmable controller for control and monitoring of small plant or HVAC equipment. Includes support for 32 Modbus (TCP or RTU) devices or 320 Modbus Points.	FBXi-X256	2CQG201014R1021

CBXi Series

CBXi Series

The CBXi Series is a freely programmable range of BACnet® Controllers with native BACnet/IP communications support. The controllers are BTL listed BACnet Building Controller (B-BC) and are ideally suited for a wide range of applications for intelligent control of HVAC equipment, and electrical systems including lighting control and metering applications. The CBXi-8R8 and CBXi-8R8-H controllers support multi-protocol communications simultaneously including BACnet/IP, BACnet MS/TP, Modbus® TCP and Modbus RTU.
Part of Cylon's CB Line of BACnet field controllers, the CBXi-8R8 controller features 8 UniPuts™ with Relay, 8 Universal Inputs, as well as support for up to five FLX (Field Level eXpansion) series extension modules providing up to 96 points of control, and a dedicated input for Cylon's CBT-STAT or UCU Room Display intelligent room sensors. The -H variant provides local override function through HOA switches. FLX I/O expansion modules are available in a variety of options to allow maximum flexibility in achieving the required point configuration.

Description	Order details	
	Type code	Order code
16-Point BACnet/IP B-BC programmable controller for control and monitoring of small plant or HVAC equipment. Controller features 8 UniPuts™ with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. Includes support for 12 Modbus (TCP or RTU) devices or 120 Modbus Points.	CBXi-8R8	2CQG201001R1021
16-Point BACnet/IP B-BC programmable controller with HOA switches and potentiometers for control and monitoring of small plant or HVAC equipment. Controller features 8 UniPuts™ with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. Includes support for 12 Modbus (TCP or RTU) devices or 120 Modbus Points.	CBXi-8R8-H	2CQG201002R1021

ABB Cylon®

BACnet® Main Plant Controllers

CBX Series

CBX Series

The CBX Series is a freely programmable range of BACnet® Controllers with native MS/TP communications support. The controllers are BTL listed BACnet Advanced Application Controller (B-AAC) and are ideally suited for a wide range of applications for intelligent control of HVAC equipment, and electrical systems including lighting control and metering applications. The CBX-8R8 and CBX-8R8-H controllers support multi-protocol communications simultaneously including BACnet MS/TP and Modbus® RTU.
Part of Cylon's CB Line of BACnet field controllers, the CBX-8R8 controller features 8 UniPuts™ with Relay, 8 Universal Inputs, as well as support for up to three FLX (Field Level eXpansion) series extension modules providing up to 64 points of control, and a dedicated input for Cylon's CBT-STAT or UCU Room Display intelligent room sensors. The -H variant provides local override function through HOA switches. FLX I/O expansion modules are available in a variety of options to allow maximum flexibility in achieving the required point configuration.

Description	Order details	
	Type code	Order code
16- Point BACnet® B-AAC programmable controller for control and monitoring of HVAC equipment and plants. Controller features 8 UniPuts™ with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. Includes support for 4 Modbus® RTU devices or 40 points.	CBX-8R8	2CQG201003R1021
16- Point BACnet® B-AAC programmable controller with HOA switches and potentiometers for control and monitoring of HVAC equipment and plants. Controller features 8 UniPuts™ with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. Includes support for 4 Modbus® RTU devices or 40 points.	CBX-8R8-H	2CQG201004R1021

ABB Cylon®

FBXi / CBXi / CBX Main Plant IO

FLX

Field Level eXpansion (FLX) modules

The FBXi Series is a freely programmable range of BACnet® Controllers with native BACnet/IP communications support. The controllers are BTL listed BACnet Building Controller (B-BC) and are ideally suited for a wide range of applications for intelligent control of HVAC equipment, and electrical systems including lighting control and metering applications. The FBXi Series controllers support multi-protocol communications simultaneously including BACnet/IP, BACnet MS/TP, Modbus® TCP and Modbus RTU. Part of the Cylon® FLXeon Line of BACnet field controllers, the FBXi Series controllers feature support for up to sixteen FLX (Field Level eXpansion) series extension modules providing up to 256 points of control, and a dedicated input for Cylon® room sensors. FLX I/O expansion modules are available in a variety of options to allow maximum flexibility in achieving the required point configuration.

Description	Order details	
	Type code	Order code
8-Point Field Level eXpansion (FLX) I/O module for CBX. Module features 4 UniPuts™ with Relay outputs and 4 UI. A maximum of three FLX modules may be added to a single CBX.	FLX-4R4	2CQG200704R1021
8-Point Field Level eXpansion (FLX) I/O module with HOA switches and potentiometers for CBX. Module features 4 UniPuts™ with Relay outputs and 4 UI. A maximum of three FLX modules may be added to a single CBX.	FLX-4R4-H	2CQG200705R1021
16-Point Field Level eXpansion (FLX) I/O module for CBX. Module features 8 UniPutsTM with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. A maximum of three FLX modules may be added to a single CBX.	FLX-8R8	2CQG200706R1021
16-Point Field Level eXpansion (FLX) I/O module with HOA switches and potentiometers for CBX-8R8. Module features 8 UniPutsTM with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. A maximum of three FLX modules may be added to a single CBX-8R8.	FLX-8R8-H	2CQG200707R1021
16-Point Field Level eXpansion (FLX) I/O module for CBX. Module features 16 Digital Inputs. A maximum of three FLX modules may be added to a single CBX.	FLX-16DI	2CQG200703R1021
Remote Mounting Connectors (Pair) For FLX I/O Modules.	FLX-RMC	2CQG205801R1021
20 V DC Power supply module for FLX Field Level eXpansion IO modules and external field devices (using the FLX-RMC).	FLX-PS24	2CQG205601R1021
9 pin interconnect replacement for FLX bus connection.	FLX-BUS-INT	2CQG206001R1021
9 pin end of line FLX bus termination replacement.	FLX-BUS-TERM	2CQG206002R1021

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BACnet®/IP Unitary Controllers

FBVi-2U4-4T

FBVi-2U4-4T

The FBVi-2U4-4T is a freely programmable BACnet® Unitary Controller with native BACnet/IP communications support. The controller is BTL listed as BACnet Building Controller (B-BC) and is ideally suited for the control of Variable Air Volume zoning applications.

Part of the Cylon® FLXeon Series of BACnet/IP field controllers, the FBVi-2U4-4T features 2 UniPuts™, 4 Universal Inputs and 4 Digital (Triac) Outputs, along with an integrated airflow sensor and a dedicated input for Cylon® room sensors. The FBVi-2U4-4T model includes an integrated Belimo actuator.

Description	Order details	
	Type code	Order code
10-Point BACnet/IP B-BC programmable VAV controller for control and monitoring of small plant or HVAC equipment. Controller features 2 UniPuts™ (software configurable for AI, AO, DI or DO-R (Relay)) 4 DO and 4 UI. Preloaded Strategy with Imperial units.	FBVi-2U4-4T-IMP	2CQG201015R1021
10-Point BACnet/IP B-BC programmable VAV controller for control and monitoring of small plant or HVAC equipment. Controller features 2 UniPuts™ (software configurable for AI, AO, DI or DO-R (Relay)) 4 DO and 4 UI. Preloaded Strategy with Metric units.	FBVi-2U4-4T-SI	2CQG201016R1021
10-Point BACnet/IP B-BC programmable VAV controller for control and monitoring of small plant or HVAC equipment. Controller features 2 UniPuts™ (software configurable for AI, AO, DI or DO-R (Relay)) 4 DO and 4 UI. Preloaded Strategy with Imperial units and FusionAir support.	FBVi-2U4-4T-FAIMP	2CQG201020R1011
10-Point BACnet/IP B-BC programmable VAV controller for control and monitoring of small plant or HVAC equipment. Controller features 2 UniPuts™ (software configurable for AI, AO, DI or DO-R (Relay)) 4 DO and 4 UI. Preloaded Strategy with Metric units and FusionAir support.	FBVi-2U4-4T-FA-SI	2CQG201021R1011

ABB Cylon®

BACnet® Unitary Controllers

CBT-4T4-2U1R

CBT-4T4-2U1R

11 point BACnet® B-AAC programmable controller for terminal applications such as fan coil units with EC motors, heat pumps, unit ventilators and chilled ceilings.
Controller features 4 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 4 UI, 2 Uniputs and 1 x 8A mains rated Digital (high in-rush current relay) Output.
Freely programmable, no pre-loaded strategy.

Description	Order details	
	Type code	Order code
11-Point BACnet B-AAC programmable controller for terminal applications such as fan coil units with ECM, heat pumps, unit vents, chilled ceilings, and miscellaenous points. Controller features 4 UniPutsTM with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 4 UI and 2 UniPuts and 1 X 8A mains Relay Digital Output. Freely programmable.	CBT-4T4-2U1R	2CQG201308R1021

ABB Cylon®

BACnet® Unitary Controllers

CBT-3T6-5R

CBT-3T6-5R

The CBT-3T6-5R is a freely programmable BACnet® Unitary Controller with native MS/TP communications support. The controller is BTL listed as a BACnet Advanced Application Controller (B-AAC) and is ideally suited for Rooftop HVAC units, Fan Coil Units, Heat Pumps, Unit Ventilators, and custom unitary equipment control.
Part of Cylon's CB Line of BACnet field controllers, the CBT-3T6-5R provides 3 UniPuts™ with Triac (configurable as inputs or outputs), 6 Universal Inputs, 5 Digital (Relay) Outputs and a dedicated input for Cylon's CBT-STAT or UCU Room Display intelligent room sensors.

Description	Order details	
	Type code	Order code
14-Point BACnet B-AAC programmable controller for terminal applications such as heat pump, roof top unit, fan coil, chilled ceiling, and small air handling units. Controller features 3 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 6 UI and 5 Digital (Relay) Outputs. Freely programmable, no pre-loaded strategy.	CBT-3T6-5R	2CQG201309R1021
14-Point BACnet B-AAC programmable controller for terminal applications such as heat pump, roof top unit, fan coil, chilled ceiling, and small air handling units. Controller features 3 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 6 UI and 5 Digital (Relay) Outputs. Freely programmable with preloaded Heat-Pump strategy (Imperial units).	CBT-3T6-5R-HP-IMP	2CQG201302R1021
14-Point BACnet B-AAC programmable controller for terminal applications such as heat pump, roof top unit, fan coil, chilled ceiling, and small air handling units. Controller features 3 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 6 UI and 5 Digital (Relay) Outputs. Freely programmable with preloaded Heat-Pump strategy (SI units).	CBT-3T6-5R-HP-SI	2CQG201303R1021
14-Point BACnet B-AAC programmable controller for terminal applications such as heat pump, roof top unit, fan coil, chilled ceiling, and small air handling units. Controller features 3 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 6 UI and 5 Digital (Relay) Outputs. Freely programmable with preloaded RTU strategy (Imperial units).	CBT-3T6-5R-RTU-IMP	2CQG201304R1021
14-Point BACnet B-AAC programmable controller for terminal applications such as heat pump, roof top unit, fan coil, chilled ceiling, and small air handling units. Controller features 3 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 6 UI and 5 Digital (Relay) Outputs. Freely programmable with preloaded RTU strategy (SI units).	CBT-3T6-5R-RTU-SI	2CQG201305R1021
14-Point BACnet B-AAC programmable controller for terminal applications such as heat pump, roof top unit, fan coil, chilled ceiling, and small air handling units. Controller features 3 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 6 UI and 5 Digital (Relay) Outputs. Freely programmable with preloaded Heat-Pump strategy (Imperial units) and FusionAir support.	CBT-3T6-5R-FA-HP-IMP	2CQG201312R1011
14-Point BACnet B-AAC programmable controller for terminal applications such as heat pump, roof top unit, fan coil, chilled ceiling, and small air handling units. Controller features 3 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 6 UI and 5 Digital (Relay) Outputs. Freely programmable with preloaded Heat-Pump strategy (SI units) and FusionAir support.	CBT-3T6-5R-FA-HP-SI	2CQG201313R1011
14-Point BACnet B-AAC programmable controller for terminal applications such as heat pump, roof top unit, fan coil, chilled ceiling, and small air handling units. Controller features 3 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 6 UI and 5 Digital (Relay) Outputs. Freely programmable with preloaded RTU strategy (Imperial units) and FusionAir support.	CBT-3T6-5R-FA-RTU-IMP	2CQG201314R1011
14-Point BACnet B-AAC programmable controller for terminal applications such as heat pump, roof top unit, fan coil, chilled ceiling, and small air handling units. Controller features 3 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 6 UI and 5 Digital (Relay) Outputs. Freely programmable with preloaded RTU strategy (SI units) and FusionAir support.	CBT-3T6-5R-FA-RTU-SI	2CQG201315R1011

ABB Cylon®

BACnet® Unitary Controllers

CBV Series

CBV Series

The CBV Series is a freely programmable range of BACnet® Unitary Controllers with native MS/TP communications support. The controllers are BTL listed as BACnet Advanced Application Controllers (B-AAC) and are ideally suited for the control of Variable Air Volume zoning applications.

Part of Cylon's CB Line of BACnet field controllers, the CBV Series features 2 UniPuts™, 4 Universal Inputs and 3 Digital (Triac) Outputs, along with an integrated airflow sensor and a dedicated input for Cylon's CBT-STAT or UCU Room Display intelligent room sensors. The CBT-2U4-3T model includes an integrated Belimo actuator. The -N variant has a facility for connection to an external actuator.

Description	Order details	
	Type code	Order code
BACnet B-AAC single-duct VAV terminal unit controller with integrated actuator. Controller features 2 UniPutsTM (software configured for AI, AO, DI or DO), 4 UI and 3 DO (Triac). Built-in differential pressure transducer (0-1.3"w.c., 0-320Pa) and actuator (45in-lb, 5Nm). Freely programmable, c/w pre-loaded factory configuration strategy with imperial units (degF).	CBV-2U4-3T-IMP	2CQG201510R0021
BACnet B-AAC single-duct VAV terminal unit controller without actuator. Controller features 2 UniPutsTM (software configured for AI, AO, DI or DO), 4 UI and 3 DO (Triac). Built-in differential pressure transducer (0-1.3"w.c., 0-320Pa). Freely programmable, c/w pre-loaded factory configuration strategy with imperial units (degF).	CBV-2U4-3T-N-IMP	2CQG201511R0021
BACnet B-AAC single-duct VAV terminal unit controller with integrated actuator. Controller features 2 UniPutsTM (software configured for AI, AO, DI or DO), 4 UI and 3 DO (Triac). Built-in differential pressure transducer (0-1.3"w.c., 0-320Pa) and actuator (45in-lb, 5Nm). Freely programmable, c/w pre-loaded factory configuration strategy with SI units (degC).	CBV-2U4-3T-SI	2CQG201513R0021
BACnet B-AAC single-duct VAV terminal unit controller without actuator. Controller features 2 UniPutsTM (software configured for AI, AO, DI or DO), 4 UI and 3 DO (Triac). Built-in differential pressure transducer (0-1.3"w.c., 0-320Pa). Freely programmable, c/w pre-loaded factory configuration strategy with SI units (degC).	CBV-2U4-3T-N-SI	2CQG201512R0021
BACnet B-AAC single-duct VAV terminal unit controller with integrated actuator. Controller features 2 UniPutsTM (software configured for AI, AO, DI or DO), 4 UI and 3 DO (Triac). Built-in differential pressure transducer (0-1.3"w.c., 0...320 Pa) and actuator (45in-lb, 5 Nm). Freely programmable, c/w pre-loaded factory configuration strategy with imperial units (degF) and FusionAir support.	CBV-2U4-3T-FA-IMP	2CQG201515R1011
BACnet B-AAC single-duct VAV terminal unit controller with integrated actuator. Controller features 2 UniPutsTM (software configured for AI, AO, DI or DO), 4 UI and 3 DO (Triac). Built-in differential pressure transducer (0-1.3"w.c., 0-320Pa) and actuator (45in-lb, 5Nm). Freely programmable, c/w pre-loaded factory configuration strategy with SI units (degC) and Fusion Air support.	CBV-2U4-3T-FA-SI	2CQG201518R1011
BACnet B-AAC single-duct VAV terminal unit controller without actuator. Controller features 2 UniPutsTM (software configured for AI, AO, DI or DO), 4 UI and 3 DO (Triac). Built-in differential pressure transducer (0-1.3"w.c., 0...320 Pa). Freely programmable, c/w pre-loaded factory configuration strategy with imperial units (degF) and FusionAir support.	CBV-2U4-3T-N-FA-IMP	2CQG201516R1011
BACnet B-AAC single-duct VAV terminal unit controller without actuator. Controller features 2 UniPutsTM (software configured for AI, AO, DI or DO), 4 UI and 3 DO (Triac). Built-in differential pressure transducer (0-1.3"w.c., 0...320 Pa). Freely programmable, c/w pre-loaded factory configuration strategy with SI units (degC) and FusionAir support.	CBV-2U4-3T-N-FA-SI	2CQG201517R1011

ABB Cylon®

BACnet® Engineering Software

Cxpro[HD]

Cxpro[HD]

Cxpro[HD] provides all tools for integratores to quickly develop operational strategies for the ABB Cylon® CB Line of BACnet® controllers and allows sites to be designed, configured, tested, engineered, commissioned and maintained.

Description	Order details	
	Type code	Order code
Downloadable software with Software License Key. Software application provides all tools for Integrators to quickly develop operational strategies for the Cylon Auto-Matrix CB Line of BACnet® controllers and allows sites to be designed, configured, tested, engineered, commissioned and maintained.	CXP-SI	2CQG203402S3021
Additional Software License Key. Requires CXPROHD-SI. Software application provides all tools for Integrators to quickly develop operational strategies for the Cylon Auto-Matrix CB Line of BACnet® controllers and allows sites to be designed, configured, tested, engineered, commissioned and maintained.Software application provides all tools for Integrators to quickly develop operational strategies for the Cylon Auto-Matrix CB Line of BACnet® controllers and allows sites to be designed, configured, tested, engineered, commissioned and maintained.	CXP-SI-A	2CQG203403S3021

Cylon®

Cylon® Engineering Centre

CEC BACnet® provides all tools for engineering legacy Cylon BACnet® sites, and Unitron sites.

Description	Order details	
	Type code	Order code
Cylon Engineering Centre Programming software licence for BACnet Systems.	CEC-BAC	2CQG203406S3021
Additional licence for use of the Cylon Engineering Centre programming software. Only available once 1M4UC130 has been purchased.	CEC-BAC-ADD	2CQG203407S3021

INTEGRA™ IT-8000 (EMEA & FE)

INTEGRA™ IT-8000 (EMEA & FE)

Part of the INTEGRA™ family, the IT-8000 is an embedded Internet of Things (IoT), BTL-listed BACnet® Building Controller (B-BC) that connects to ABB's Cylon BACnet field controllers. The IT-8000 is also capable of connection to and network management of a variety of diverse devices and subsystems using various protocols including, but not limited to, Modbus™ and LonWorks™.

When connected to an Ethernet or wireless LAN, the IT-8000 uses Internet connectivity and web-serving capability to provide integrated control, supervision, network management, scheduling, data logging, alarming, and rich graphical displays through a standard Web browser.

Description	Order details	
	Type code	Order code
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 250 points. Made up of IT-8000-WIFI + IT8-005-COR-E + IT8-005-SM0.	IT-8005-USWIFI-E	2CQG150114R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 250 points. Made up of IT-8000-WIFI + IT8-005-COR-E + IT8-005-SM0.	IT-8005-WWWIFI-E	2CQG150115R4011
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 500 points. Made up of IT-8000-WIFI + IT8-010-COR-E + IT8-010-SM0.	IT-8010-USWIFI-E	2CQG150116R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 500 points. Made up of IT-8000-WIFI + IT8-010-COR-E + IT8-010-SM0.	IT-8010-WWWIFI-E	2CQG150117R4011
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes includes core license for 1250 points. Made up of IT-8000-WIFI + IT8-025-COR-E + IT8-025-SM0.	IT-8025-USWIFI-E	2CQG150118R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes includes core license for 1250 points. Made up of IT-8000-WIFI + IT8-025-COR-E + IT8-025-SM0.	IT-8025-WWWIFI-E	2CQG150119R4011
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 5000 points. Made up of IT-8000-WIFI + IT8-100-COR-E + IT8-100-SM0.	IT-8100-USWIFI-E	2CQG150120R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 5000 points. Made up of IT-8000-WIFI + IT8-100-COR-E + IT8-100-SM0.	IT-8100-WWWIFI-E	2CQG150121R4011
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 10000 points. Made up of IT-8000-WIFI + IT8-200-COR-E + IT8-200-SM0.	IT-8200-USWIFI-E	2CQG150122R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 10000 points. Made up of IT-8000-WIFI + IT8-200-COR-E + IT8-200-SM0.	IT-8200-WWWIFI-E	2CQG150123R4011
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additiona 500 points to the core (IT8-XXX-COR).	IT8-010-DCP-E	2CQG150123S4061
IT-8000 device capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 500 points to the core (IT8-XXX-COR-E).	IT8-010-DCU-E	2CQG150124S4061
Annual support fee and renewal of Demo equipment and Workbench licences. The fee for this part includes the annual fee for the Self-Licensing Extension Service and Marketplace Prime package. All rights to the Marketplace package are conditioned on agreement to the Niagara Marketplace Terms and Conditions of Use.	IT8-DEMO-SUP-R-E	2CQG150125R4011
Bundled IT-8000 with WiFi DISABLED. Includes core license for 250 points. Made up of IT-8000-NOWIFI + IT8-005-COR-E + IT8-005-SM0.	IT-8005-NOWIFI-E	2CQG150126R4011

INTEGRA™ IT-8000 (EMEA & FE)

INTEGRA™ IT-8000 (EMEA & FE)

Description	Order details	
	Type code	Order code
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 1,250 points to the core (IT8-XXX-COR-E).	IT8-025-DCP-E	2CQG150126S4061
Bundled IT-8000 with WiFi DISABLED. Includes core license for 500 points. Made up of IT-8000-NOWIFI + IT8-010-COR-E + IT8-010-SM0.	IT-8010-NOWIFI-E	2CQG150127R4011
IT-8000 field capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 1,250 points to the core (IT8-XXX-COR-E).	IT8-025-DCU-E	2CQG150127S4061
Bundled IT-8000 with WiFi DISABLED. Includes core license for 1250 points. Made up of IT-8000-NOWIFI + IT8-025-COR-E + IT8-025-SM0.	IT-8025-NOWIFI-E	2CQG150128R4011
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 2,500 points to the core (IT8-XXX-COR).	IT8-050-DCP-E	2CQG150128S4061
Bundled IT-8000 with WiFi DISABLED. Includes core license for 5000 points. Made up of IT-8000-NOWIFI + IT8-100-COR-E + IT8-100-SM0.	IT-8100-NOWIFI-E	2CQG150129R4011
IT-8000 field capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 2,500 points to the core (IT8-XXX-COR-E).	IT8-050-DCU-E	2CQG150129S4061
Bundled IT-8000 with WiFi DISABLED. Includes core license for 10000 points. Made up of IT-8000-NOWIFI + IT8-200-COR-E + IT8-200-SM0.	IT-8200-NOWIFI-E	2CQG150130R4011
IT-8000 driver for Andover Controls AC256 over RS-232 or RS-485. (Beta version only).	IT8-DR-AC	2CQG150301S4061
IT-8000 driver for American Auto-Matrix PHP over RS-232 or RS-485. Manufactured by 3rd party. Limited support.	IT8-DR-APHP	2CQG150303S4061
IT-8000 driver for American Auto-Matrix PUP over RS-232 or RS-485. Manufactured by 3rd party. Limited support.	IT8-DR-APUP	2CQG150304S4061
DEMO VERSION of INTEGRA IT-8000 controller includes 2 EIA-485 ports, configurable for 9.6 to 115.2 kbps. Support for 2 RS-485 protocols (BACnet MS/TP, LON, Modbus RTU, AAM PUP). Two RJ-45 10/100 MB Ethernet with TCP/IP support for FOX, BACnet/IP, and Modbus TCP. WiFi connectivity 802.11 a/b/g/n. Web Interface, embedded Workbench, integrated power supply and USB backup and restore. Includes core DEMO license file with support of up to 500 devices or 25,000 points and all standard drivers.	IT8-DEMO-E	2CQG150124R4011
IT-8000 JSON Toolkit. Requires IT-8000 and valid Software Maintenance agreement.	IT8-DR-JSON	2CQG150311S4061
Provides FIPS 140-2 Level 1 conformance using the integrated FIPS certified BouncyCastle module for IT-8000. Requires IT-8000 version 4.6 and later.	IT8-FIPS	2CQG150315S4061
IT-8000 add-on single port LON FTT10A module.	IT8-NPB-LON	2CQG155803P2061
IT-8000 single port RS-232 module. Add-on providing one RS-232 port.	IT8-NPB-232	2CQG155805P2061
IT-8000 dual port RS-485 module. Add-on providing two RS-485 ports.	IT8-NPB-2X-485	2CQG155804P2061
IT-8000 SMS Alarm driver. Enables SMS alarms to be sent to any mobile phone via a GSM/GPRS modem connected to the RS-232 serial port driver. Supported in AX version 3.8U1 only. Not Available for N4.	IT8-DR-SMSALM	2CQG150317S4061

INTEGRA™ IT-8000 (EMEA & FE)

INTEGRA™ IT-8000 (EMEA & FE)

Description	Order details	
	Type code	Order code
IT-8000 wall plug module. 100...240 V AC, 50/60 Hz. Connect to the 2.5 mm barrel plug, 24 V input to the IT-8000 and includes, US, EU, UK and AU plugs.	IT8-WPM	2CQG155806P2061
IT-8000 extension cable and bracket for WLAN antenna.	IT8-WIFI-EXT	2CQG155808P2061
IT-8000 driver for Carrier Comfort Network.	IT8-DR-CCN	2CQG150305S4061
IT-8000 driver for Flex over RS-232 or RS-485.	IT8-DR-FLEX	2CQG150306S4061
IT-8000 JSON Toolkit. Requires IT-8000 and valid Software Maintenance agreement.	IT8-DR-JSON	2CQG150311S4061
IT-8000 JSON Toolkit. Requires IT-8000 and valid Software Maintenance agreement.	IT8-DR-JSON	2CQG150311S4061
IT-8000 driver for McQuay to OPM driver. For use with IT-8000 hardware.	IT8-DR-MCQUAY	2CQG150312S4061
IT-8000 driver for Micros Fidelio IP driver.	IT8-DR-MFID	2CQG150313S4061
Provides FIPS 140-2 Level 1 conformance using the integrated FIPS certified BouncyCastle module for IT-8000. Requires IT-8000 version 4.6 and later.	IT8-FIPS	2CQG150315S4061
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 5 devices or 250 points to the core (IT8-XXX-COR).	IT8-005-DCP	2CQG150108S4061
IT-8000 driver for Andover Controls Infinity.	IT8-DR-AINF	2CQG150302S4061

INTEGRA™ IT-8000 (NA)

INTEGRA™ IT-8000 (NA)

Part of the INTEGRA™ family, the IT-8000 is an embedded Internet of Things (IoT), BTL-listed BACnet® Building Controller (B-BC) that connects to ABB's Cylon BACnet field controllers. The IT-8000 is also capable of connection to and network management of a variety of diverse devices and subsystems using various protocols including, but not limited to, Modbus™ and LonWorks™. When connected to an Ethernet or wireless LAN, the IT-8000 uses Internet connectivity and web-serving capability to provide integrated control, supervision, network management, scheduling, data logging, alarming, and rich graphical displays through a standard Web browser.

Description	Order details	
	Type code	Order code
Single port RS-232 add-on module for use with IT-8000 hardware.	IT8-NPB-232	2CQG150201R2011
Dual port RS-485 add-on module for use with IT-8000 hardware.	IT8-NPB-2X-485	2CQG150202R2011
IT-8000 add-on single port LON FTT10A module.	IT8-NPB-LON	2CQG150203R2011
IT-8000 extension cable and bracket for WLAN antenna.	IT8-WIFI-EXT	2CQG150204R2011
IT-8000 wall plug module. 100-240 VAC, 50/60 Hz. Connect to the 2.5 mm barrel plug, 24 V input to the IT-8000 and includes, US, EU, UK and AU plugs.	IT8-WPM	2CQG150205R2011
INTEGRA N4 network controller with embedded webserver includes 2 isolated RS-485 ports, configurable for 9.6 to 115.2 kbps. Support for 2 RS-485 protocols (BACnet MS/TP, LON, Modbus RTU). Two RJ-45 10/100 MB Ethernet with TCP/IP support for FOX, BACnet/IP, and Modbus TCP. WiFi connectivity 802.11 a/b/g/n (US WLAN Country Code). Web Interface, embedded Workbench, integrated power supply and USB backup and restore.	IT-8000-USWIFI	2CQG150101R2011
INTEGRA N4 network controller with embedded webserver includes 2 isolated RS-485 ports, configurable for 9.6 to 115.2 kbps. Support for 2 RS-485 protocols (BACnet MS/TP, LON, Modbus RTU). Two RJ-45 10/100 MB Ethernet with TCP/IP support for FOX, BACnet/IP, and Modbus TCP. WiFi connectivity 802.11 a/b/g/n (Worldwide WLAN Code). Web Interface, embedded Workbench, integrated power supply and USB backup and restore.	IT-8000-WWWIFI	2CQG150102R2011
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 1 device or 50 points to the core (IT8-XXX-COR).	IT8-001-DCP	2CQG150105S4061
IT-8000 device capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 1 device or 50 points to the core (IT8-XXX-COR).	IT8-001-DCU	2CQG150106S4061
IT-8000 device core software license file. Adds support for up to 5 devices or 250 points. Requires IT-8000 & IT8-005-SM0	IT8-005-COR	2CQG150107S4061
IT-8000 device capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 5 devices or 250 points to the core (IT8-XXX-COR).	IT8-005-DCU	2CQG150109S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 5 devices or 250 points. Made up of IT-8000-WIFI + IT8-005-COR + IT8-005-SM0.	IT-8005-USWIFI	2CQG150103R2011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 5 devices or 250 points. Made up of IT-8000-WIFI + IT8-005-COR + IT8-005-SM0.	IT-8005-WWWIFI	2CQG150104R2011
IT-8000 device core software license file. Adds support for up to 10 devices or 500 points. Requires IT-8000 & IT8-010-SM0.	IT8-010-COR	2CQG150110S4061
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 10 devices or 500 points to the core (IT8-XXX-COR).	IT8-010-DCP	2CQG150111S4061

INTEGRA™ IT-8000 (NA)

INTEGRA™ IT-8000 (NA)

Description	Order details	
	Type code	Order code
IT-8000 device capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 10 devices or 500 points to the core (IT8-XXX-COR).	IT8-010-DCU	2CQG150112S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 10 devices or 500 points. Made up of IT-8000-WIFI + IT8-010-COR + IT8-010-SM0.	IT-8010-USWIFI	2CQG150105R2011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 10 devices or 500 points. Made up of IT-8000-WIFI + IT8-010-COR + IT8-010-SM0.	IT-8010-WWWIFI	2CQG150106R2011
IT-8000 device core software license file. Adds support for up to 25 devices or 1,250 points. Requires IT-8000 & IT8-025-SM0.	IT8-025-COR	2CQG150113S4061
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 25 devices or 1,250 points to the core (IT8-XXX-COR).	IT8-025-DCP	2CQG150114S4061
IT-8000 field capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 25 devices or 1,250 points to the core (IT8-XXX-COR).	IT8-025-DCU	2CQG150115S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes includes core license for 25 devices or 1250 points. Made up of IT-8000-WIFI + IT8-025-COR + IT8-025-SM0.	IT-8025-USWIFI	2CQG150107R2011
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 50 devices or 2,500 points to the core (IT8-XXX-COR).	IT8-050-DCP	2CQG150116S4061
IT-8000 field capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 50 devices or 2,500 points to the core (IT8-XXX-COR).	IT8-050-DCU	2CQG150117S4061
Enables IT-8000 to run NiagaraAX operating system instead of N4.	IT8-0S-AX	2CQG150118S4061
IT-8000 device core software license file. Adds support for up to 100 devices or 5,000 points. Requires IT-8000 & IT8-100-SM0.	IT8-100-COR	2CQG150119S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 100 devices or 5000 points. Made up of IT-8000-WIFI + IT8-100-COR + IT8-100-SM0.	IT-8100-USWIFI	2CQG150109R2011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 100 devices or 5000 points. Made up of IT-8000-WIFI + IT8-100-COR + IT8-100-SM0.	IT-8100-WWWIFI	2CQG150110R2011
IT-8000 device core software license file. Adds support for up to 200 devices or 10,000 points. Requires IT-8000 & IT8-200-SM0.	IT8-200-COR	2CQG150120S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 200 devices or 10000 points. Made up of IT-8000-WIFI + IT8-200-COR + IT8-200-SM0.	IT-8200-USWIFI	2CQG150111R2011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 200 devices or 10000 points. Made up of IT-8000-WIFI + IT8-200-COR + IT8-200-SM0.	IT-8200-WWWIFI	2CQG150112R2011
DEMO VERSION of INTEGRA IT-8000 controller includes 2 EIA-485 ports, configurable for 9.6 to 115.2 kbps. Support for 2 RS-485 protocols (BACnet MS/TP, LON, Modbus RTU, AAM PUP). Two RJ-45 10/100 MB Ethernet with TCP/IP support for FOX, BACnet/IP, and Modbus TCP. WiFi connectivity 802.11 a/b/g/n. Web Interface, embedded Workbench, integrated power supply and USB backup and restore. Includes core DEMO license file with support of up to 500 devices or 25,000 points and all standard drivers.	IT8-DEMO	2CQG150113R2011
IT-8000 driver that enables control of IR controlled AV equipment via an RS-232 connection to a Global Cache FC module. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-GLOB	2CQG150307S4061

INTEGRA™ IT-8000 (NA)

INTEGRA™ IT-8000 (NA)

Description	Order details	
	Type code	Order code
IT-8000 driver for European Hortsmann meters. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-HORT	2CQG150309S4061
IT-8000 driver for Josam Grease Trap Sensor. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-JOS	2CQG150310S4061
IT-8000 driver for Lang Oven over RS-232 or RS-485. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-LANGOVN	2CQG150316S4061
IT-8000 driver for Veeder-Root over RS-232 or RS-485. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-VDRT	2CQG150314S4061
IT-8000 Expansion Module Accessory Kit. Includes (2) RS-485 and (1) LON-FTT10A connectors.	IT8-EM-OPTKIT	2CQG155809P2061
IT-8000 DIN Rail Mounting Power Supply Unit. 90...240 V AC 20VA.	IT8-PMD20VA	2CQG155801P2061
IT-8000 DIN Rail Mounting Power Supply Unit. 90...240 V AC 30VA.	IT8-PMD30VA	2CQG155802P2061
IT-8000 WIFI Accessory Kit. Includes 2.4/5GHz Antenna, power and (2) RS-485 connectors.	IT8-WIFI-KIT	2CQG155807P2061

INTEGRA™ IT-8000 Software Maintenance Agreements

INTEGRA™ IT-8000 Software Maintenance Agreements

Description	Order details	
	Type code	Order code
IT-8000 software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software IT8-005-COR. Optional 3 or 5 year maintenance may be substituted.	IT8-005-SM0	2CQG153601S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-005-COR.	IT8-005-SM1	2CQG153602S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-005-COR.	IT8-005-SM3	2CQG153603S4061
IT-8000 software maintenance agreement. 5 year software maintenance agreement for core software IT8-005-COR.	IT8-005-SM5	2CQG153604S4061
IT-8000 software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software IT8-010-COR. Optional 3 or 5 year maintenance may be substituted.	IT8-010-SM0	2CQG153605S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-010-COR.	IT8-010-SM1	2CQG153606S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-010-COR.	IT8-010-SM3	2CQG153607S4061
IT-8000 software maintenance agreement. 5 year software maintenance agreement for core software IT8-010-COR.	IT8-010-SM5	2CQG153608S4061
IT-8000 software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software IT8-025-COR. Optional 3 or 5 year maintenance may be substituted.	IT8-025-SM0	2CQG153609S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-025-COR.	IT8-025-SM1	2CQG153610S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-025-COR.	IT8-025-SM3	2CQG153611S4061
IT-8000 software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software IT8-100-COR. Optional 3 or 5 year maintenance may be substituted.	IT8-100-SM0	2CQG153613S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-100-COR.	IT8-100-SM1	2CQG153614S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-100-COR.	IT8-100-SM3	2CQG153615S4061
IT-8000 software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software IT8-200-COR. Optional 3 or 5 year maintenance may be substituted.	IT8-200-SM0	2CQG153617S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-200-COR.	IT8-200-SM1	2CQG153618S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-200-COR.	IT8-200-SM3	2CQG153619S4061
IT-8000 software maintenance agreement. 5 year software maintenance agreement for core software IT8-200-COR.	IT8-200-SM5	2CQG153620S4061
IT-8000 software maintenance agreement. 5 year software maintenance agreement for core software IT8-025-COR.	IT8-025-SM5	2CQG153612S4061
IT-8000 software maintenance agreement. 5 year software maintenance agreement for core software IT8-100-COR.	IT8-100-SM5	2CQG153616S4061

INTEGRA-Supervisor (EMEA & FE)

INTEGRA-Supervisor (EMEA & FE)

BTL-listed as an BACnet® Advanced Operator Workstation (B-AWS) and BACnet Operator Workstation (B-OWS), the INTEGRA-Supervisor is an enterprise management server class software solution that connects multiple INTEGRA™-based IT-8000 controllers, along with other IP-based controllers and field devices, to be networked together. It serves real-time graphical information to standard web-browser clients and provides server-level functions. These functions include centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management and integration with other enterprise software applications through an XML interface (oBIX standard). Additionally, the INTEGRA-Supervisor includes a comprehensive graphical engineering toolset for application development.

Description	Order details	
	Type code	Order code
DEMO VERSION of INTEGRA-Supervisor software for Windows OS. Includes all available drivers. License will renew annually with the receipt of annual support fee. NOTE: Demo Licenses for partner engineering and demo use only. Not for end user sales.	ITS-DEMO	2CQG150501S4061
INTEGRA-Supervisor CSV database driver. Requires ITS-XXX-SUP.	ITS-DR-CSV	2CQG150502S4061
INTEGRA-Supervisor MYSQL database driver. Requires ITS-XXX-SUP.	ITS-DR-MYSQL	2CQG150503S4061
INTEGRA-Supervisor Oracle 11G database driver. Requires ITS-XXX-SUP.	ITS-DR-ORCL	2CQG150505S4061
INTEGRA-Supervisor JSON Toolkit for Supervisor (SMA Required).	ITS-DR-JSON	2CQG150507S4061
INTEGRA-Supervisor software core with support for 0 Niagara network connections. Includes standard drivers. Requires ITS-000-SM0. Typically used to manage TCP/IP field devices (requires ITS-XXX-DIP).	ITS-000-SUP	2CQG153202S4061
Adds one additional Niagara connection to INTEGRA-Supervisor core ITS-000-SUP to ITS-100-SUP.	ITS-001-ADD	2CQG153203S4061
INTEGRA-Supervisor software core with support for 1 Niagara network connection. Includes standard drivers. Requires ITS-001-SM0.	ITS-001-SUP	2CQG153204S4061
INTEGRA-Supervisor software core with support for 10 Niagara network connections. Includes standard drivers. Requires ITS-010-SM0.	ITS-010-SUP	2CQG153209S4061
INTEGRA-Supervisor software core with support for 100 Niagara network connections. Includes standard drivers. Requires ITS-100-SM0.	ITS-100-SUP	2CQG153214S4061
INTEGRA-Supervisor upgrade to ITS-100-SUP from ITS-000-SUP to ITS-010-SUP. Will maintain any ITS-001-ADD that were added to original core (ITS-XXX-N4).	ITS-100-UPG	2CQG153215S4061
INTEGRA-Supervisor Alarm Console client. Support for Niagara alarm monitoring.	ITS-ALM-CNSL	2CQG153218S4061
INTEGRA-Supervisor upgrade from ITS-100-SUP to ITS-UNL-SUP.	ITS-UNL-UPG	2CQG153222S4061
INTEGRA-Supervisor software core with support for unlimited Niagara network connections. Includes standard drivers. Requires ITS-UNL-SM0.	ITS-UNL-SUP	2CQG153221S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-010-DIP-E	2CQG153232S4061

INTEGRA-Supervisor (EMEA & FE)

INTEGRA-Supervisor (EMEA & FE)

Description	Order details	
	Type code	Order code
INTEGRA-Supervisor Device Integration Pack license. Adds support for 1,250 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-025-DIP-E	2CQG153233S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 2,500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-050-DIP-E	2CQG153234S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 50,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-1000-DIP-E	2CQG153235S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 100 non-Niagara devices or 5,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-100-DIP-E	2CQG153236S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 10,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-200-DIP-E	2CQG153237S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 25,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-500-DIP-E	2CQG153238S4061
License change fee to change an existing license at the request of the customer. Applies to all license changes for either IT-8000 or INTEGRA-Supervisor software, except when a driver, upgrade or other software is purchased.	IT-LIC-CHG	2CQG153701S4061
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes includes core license for 25 devices or 1250 points. Made up of IT-8000-WIFI + IT8-025-COR + IT8-025-SM0.	IT-8025-WWWIFI	2CQG150108R2011
IT-8000 driver for Helvar Lighting Control. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-HELV	2CQG150308S4061

Description	Order details	
	Type code	Order code
INTEGRA-ProPack License File. Supports up to 5 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-5	2CQG153401S4061
INTEGRA-ProPack License File. Supports up to 10 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-10	2CQG153402S4061
INTEGRA-ProPack License File. Supports up to 25 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-25	2CQG153403S4061
INTEGRA-ProPack License File. Supports up to 50 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-50	2CQG153404S4061
INTEGRA-ProPack License File. Supports up to 100 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-100	2CQG153405S4061
INTEGRA-ProPack License File. Supports up to 50 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-200	2CQG153406S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-000-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-000-SM0	2CQG153621S4061

INTEGRA-Supervisor (EMEA & FE)

INTEGRA-Supervisor (EMEA & FE)

Description	Order details	
	Type code	Order code
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-000-SUP.	ITS-000-SM1	2CQG153622S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-000-SUP.	ITS-000-SM3	2CQG153623S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-000-SUP.	ITS-000-SM5	2CQG153624S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-001-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-001-SM0	2CQG153625S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-001-SUP.	ITS-001-SM1	2CQG153626S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-001-SUP.	ITS-001-SM3	2CQG153627S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-001-SUP.	ITS-001-SM5	2CQG153628S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-010-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-010-SM0	2CQG153637S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-010-SUP.	ITS-010-SM1	2CQG153638S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-010-SUP.	ITS-010-SM3	2CQG153639S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-010-SUP.	ITS-010-SM5	2CQG153640S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-100-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-100-SM0	2CQG153641S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-100-SUP.	ITS-100-SM1	2CQG153642S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-100-SUP.	ITS-100-SM3	2CQG153643S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-100-SUP.	ITS-100-SM5	2CQG153644S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-UNL-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-UNL-SM0	2CQG153645S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-UNL-SUP.	ITS-UNL-SM1	2CQG153646S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-UNL-SUP.	ITS-UNL-SM3	2CQG153647S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-UNL-SUP.	ITS-UNL-SM5	2CQG153648S4061

Description	Order details	
	Type code	Order code
INTEGRA Annual Renewal Fee for Demo equipment and Workbench licences for SI partner.	INTEGRA-RENEW-1	2CQG153901S4061

INTEGRA-Supervisor (NA)

INTEGRA-Supervisor (NA)

BTL-listed as an BACnet® Advanced Operator Workstation (B-AWS) and BACnet Operator Workstation (B-OWS), the INTEGRA-Supervisor is an enterprise management server class software solution that connects multiple INTEGRA™-based IT-8000 controllers, along with other IP-based controllers and field devices, to be networked together. It serves real-time graphical information to standard web-browser clients and provides server-level functions. These functions include centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management and integration with other enterprise software applications through an XML interface (oBIX standard). Additionally, the INTEGRA-Supervisor includes a comprehensive graphical engineering toolset for application development.

Description	Order details	
	Type code	Order code
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-002-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-002-SM0	2CQG153629S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-002-SUP.	ITS-002-SM1	2CQG153630S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-002-SUP.	ITS-002-SM3	2CQG153631S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-002-SUP.	ITS-002-SM5	2CQG153632S4061
INTEGRA-Supervisor software core with support for 2 Niagara network connections. Includes standard drivers. Requires ITS-002-SM0.	ITS-002-SUP	2CQG153205S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-003-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-003-SM0	2CQG153633S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-003-SUP.	ITS-003-SM1	2CQG153634S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-003-SUP.	ITS-003-SM3	2CQG153635S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-003-SUP.	ITS-003-SM5	2CQG153636S4061
INTEGRA-Supervisor software core with support for 3 Niagara network connections. Includes standard drivers. Requires ITS-003-SM0.	ITS-003-SUP	2CQG153206S4061
Adds the ability for a ITS-000-SUP, ITS-001-SUP, ITS-002-SUP or ITS-003-SUP to run 5 additional stations. Typically used for small site multi-tenant options.	ITS-005-STN	2CQG153207S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 10 non-Niagara devices or 500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-010-DIP	2CQG153208S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 25 non-Niagara devices or 1,250 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-025-DIP	2CQG153210S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 50 non-Niagara devices or 2,500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-050-DIP	2CQG153211S4061

INTEGRA-Supervisor (NA)

INTEGRA-Supervisor (NA)

Description	Order details	
	Type code	**Order code**
INTEGRA-Supervisor Device Integration Pack license. Adds support for 1,000 non-Niagara devices or 50,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-1000-DIP	2CQG153212S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 100 non-Niagara devices or 5,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-100-DIP	2CQG153213S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 200 non-Niagara devices or 10,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-200-DIP	2CQG153216S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 500 non-Niagara devices or 25,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-500-DIP	2CQG153217S4061
INTEGRA-Supervisor Micros Fidelio Driver. Requires ITS-XXX-SUP.	ITS-DR-MFID	2CQG150508S4061
INTEGRA-Supervisor OPC Client over Ethernet database driver. Requires ITS-XXX-SUP. Available only for Windows OS.	ITS-DR-OPC-CL	2CQG150504S4061
INTEGRA-Supervisor SQL database driver. Requires ITS-XXX-SUP.	ITS-DR-SQL	2CQG150506S4061
Provides FIPS 140-2 Level 1 conformance using the integrated FIPS certified BouncyCastle module for N4 Supervisor. Requires ITS-XXX-SUP version 4.6 and later.	ITS-FIPS	2CQG150509S4061
Provides FIPS 140-2 Level 1 conformance using the integrated FIPS certified BouncyCastle module for N4 Supervisor. Requires ITS-XXX-SUP version 4.6 and later.	ITS-FIPS	2CQG153219S4061
Option to install a NiagaraAX based application on a N4 Supervisor (ITS-XXX-SUP). Supports NiagaraAX version 3.8 only.	ITS-OS-AX-SUP	2CQG153220S4061
DEMO VERSION of INTEGRA-Supervisor and Workbench Engineering Tool.	OFFICE-DEMO-PC	2CQG153239S4061

Description	Order details	
	Type code	**Order code**
Monthly Support fee and renewal of Demo equipment and Workbench licenses for new SI partner. Per month in first year before renewal.	INTEGRA-RENEW-2	2CQG153902S4061

ABB Cylon®

Unitron Main Plant Controllers

UC32

UC32

Description	Order details	
	Type code	Order code
Programmable controller, 8 Uniputs™, 8 Uniputs™ + Relays, 8 Universal Inputs, Up to 16 controllers per fieldbus, Flash upgradable firmware, Time-stamped datalogs, 1024 strategy blocks, 32 datalogs with up to 1024 entries per datalog, Max address = 16.	UC32.24	2CQG251011R1021
Programmable controller with internal display & keypad, 8 Uniputs™, 8 Uniputs™ + Relays, 8 Universal Inputs, Up to 16 controllers per fieldbus, Flash upgradable firmware, Time-stamped datalogs, 1024 strategy blocks, 32 datalogs with up to 1024 entries per datalog, Max address = 16.	UC32.24K	2CQG251015R1021
Programmable controller, 8 Uniputs™ + Relays, 8 Universal Inputs, Up to 16 controllers per fieldbus, Flash upgradable firmware Time-stamped datalogs, 1024 strategy blocks, 32 datalogs with up to 1024 entries per datalog, Max address = 16.	UC32.16	2CQG251007R1021
Programmable controller, 4 Uniputs™ + Relays, 8 Universal Inputs, Up to 32 controllers per fieldbus, Flash upgradable firmware, Time-stamped datalogs, 1024 strategy block, 32 datalogs with up to 1024 entries per datalog, Max address = 32.	UC32.12	2CQG251004R1021
Programmable controller 4 Uniputs™ + Relays, 4 Universal Inputs Up to 32 controllers per fieldbus Flash upgradable firmware, Time-stamped datalogs, 1024 strategy blocks 32 datalogs with up to 1024 entries per datalog, Max address = 32.	UC32.8	2CQG251001R1021
A replacement for the legacy UCxx range of Field Controllers, based on UC32 hardware.	PG32.16 (UC32.PG)	2CQG251009R1021

Unitron Unitary Controllers

UCU10FC/K

UCU10FC/K

Description	Order details	
	Type code	Order code
Programmable unitary controller with interface for UCU Room Display, 3 Universal Inputs, 2 Universal Outputs, 2 Triac Outputs, 3 Relay Digital Outputs Up to 63 controllers per fieldbus 190 strategy blocks, 4 datalogs with up to 102 entries per datalog, Data security, Max address = 63.	UCU10FC/K	2CQG251303R1021

ABB Cylon®

Unitron Communications Controllers

UC32.netK

UC32.netK

Description	Order details	
	Type code	Order code
Ethernet based peer-to-peer communications controller with internal display and keypad, RS232 Service Port, RS232 External Keypad port, RS232 Modem / printer port, RS485 Fieldbus, Embedded web server for configuration, Max Field Controllers: 63, Modbus option not included.	UC32.netK	2CQG250901R1021

UC32.netK/WEB/MOD

UC32.netK/WEB/MOD

	Order details	
Description	Type code	Order code
Ethernet based peer-to-peer communications controller with internal display and keypad, RS232 Service Port, RS232 External Keypad port, RS232 Modem / printer port, RS485 Fieldbus, Embedded WebLink web server included, Max Field Controllers: 63, Modbus communication RS232 / RS485 included, Max Modbus devices: 48.	UC32.netK/ WEB/M OD	2CQG250903R1021

Unitron Relays

UC32RP8

UC32R

Description	Order details	
	Type code	Order code
External relay pack with 8 relays, screw terminals.	UC32-RP8	2CQG205301R1021
External relay pack with 4 raise/lower relays, screw terminals.	UC32-RL4	2CQG205303R1021

UC32-RL4

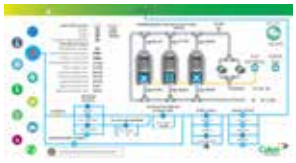
ABB Cylon®

Unitron Engineering Software

CEC - Licence (Software)

Description	Order details	
	Type code	Order code
CEC - Licence (Software) This Licence allows the use of the Cylon Engineering Centre programming software.	CEC-LIC-MU	2CQG253413S3021
CEC - Additional (Software) Additional licence for use of the Cylon Engineering Centre programming software. Only available once 1M4UC130 has been purchased.	CEC-LIC-MU-ADD	2CQG253412S3021

ABB Cylon®
Unitron Supervision Software



UCC Licence Soft Dongle

Description	Order details	
	Type code	Order code
Unitron Command Centre Site Licence allows the use of Unitron Command Centre Supervisory Software. Includes 1 Soft Dongle. Recommended for sites where 5 or more Unitron Command Centre dongles are required. Note: There is a cost associated with transferring this licence. Please contact support@cylon.com before transferring the licence.	UCC-LIC-MU	2CQG253409S3021
Additional Soft dongle for use of Unitron Command Centre Supervisory Software. Only available for purchase and use on sites with a valid Unitron Command Centre SITE LICENCE 1M4SW460. Note: There is a cost associated with transferring this licence. Please contact support@cylon.com before transferring the licence.	UCC-LIC-MU-ADD	2CQG253411S3021
Unitron Command Centre Single User allows the use of Unitron Command Centre Supervisory Software. Includes 1 Dongle. Note: There is a cost associated with transferring this licence. Please contact support@cylon.com before transferring the licence.	UCC-LIC-SU	2CQG253410S3021

UCC Single User Soft Dongle

Description	Order details	
	Type code	Order code
The OPC SERVER provides an interface between OPC DA 2.05 compliant SCADA packages and the UC32 and UCU range of field controllers. Includes single server licence.	OPC SERVER	2CQG255905S3021

ABB Cylon®

Displays & Smart Sensors

Cylon eXplore

Cylon eXplore

The next generation Cylon eXplore graphical interface is an Internet of Things (IoT) touch-screen solution that is scalable and secure, able to control, monitor and manage future-ready smart buildings. The eXplore touchscreen display allows users to securely access, view and engage with operating parameters of the entire enterprise portfolio of buildings or a single controller.

Description	Order details	
	Type code	Order code
eXplore C7 7" touchscreen for use with either ASPECT® HTML interfaces, or Cylon's easy to program, easy to use menu-based SiteGuide user interface for basic supervision of a Cylon BMS site. Includes plug-top power supply.	EXP-C7	2CQG202003R2021
eXplore-C10 10.1" touchscreen for use with either ASPECT® HTML interfaces, or Cylon's easy to program, easy to use menu-based SiteGuide user interface for basic supervision of a Cylon BMS site. Includes plug-top power supply.	EXP-C10	2CQG202002R2021

FA-T

ABB FusionAir Smart Sensor*

The ABB FusionAir Smart Sensor series provides a slim, compact, and visually appealing room control display with a high definition capacitive touch backlit LCD display for use with ABB's Cylon® FLXeon and CB Line BACnet® field controllers. The intelligent temperature and humidity sensor allow users to view and adjust selected parameters within the field controller to which it is connected. Other sensing options available for integration with the CXproHD control strategy are CO_2 or Volatile Organic Compound (VOC) sensing, and contacts for the addition of Passive Infra-Red (PIR) occupancy detection. The ABB FusionAir Smart Sensor display can be used to view control parameters and adjust HVAC, lighting and sunblind set points for the connected controller. The ABB FusionAir Smart Sensor can be installed as part of a multi-sensor application for larger spaces or multiple room connection. The system can also provide a Safe Indoor Environment against pandemic-causing viruses (such as Covid-19) through offering a patented* safe touch-free user interaction with the sensor which gives clear feedback of the safety status in a room.

Description	Order details	
	Type code	Order code
ABB FusionAir Sensor Analog Temperature only.	FA-T	2CQG505560R1011
ABB FusionAir Smart Sensor Temperature + RH.	FA-TH	2CQG505561R1011
ABB FusionAir Smart Sensor Temperature + RH + VOC.	FA-THV	2CQG505562R1011
ABB FusionAir Smart Sensor Temperature + RH + CO_2.	FA-THC	2CQG505563R1011
ABB FusionAir Smart Sensor Temperature + RH + Display.	FA-TH-D	2CQG505564R1011
ABB FusionAir Smart Sensor Temperature + RH + VOC + Display.	FA-THV-D	2CQG505565R1011
ABB FusionAir Smart Sensor Temperature + RH + CO_2 + Display.	FA-THC-D	2CQG505566R1011

* patent pending

ABB Cylon®

Displays & Smart Sensors

CBT-STAT

Cylon® CBT-STAT

The CBT-STAT and CBT-STAT-H provide visually appealing room control display for use with Cylon's CB Line BACnet® field controllers. The intelligent temperature sensor CBT-STAT and the CBT-STAT-H with integrated humidity sensor allow users to view and adjust selected parameters within the field controller to which it is connected. Use of the CBT-STAT(-H) avoids the need for any special tools of software to fully configure and commission a VAV controller. The configuration and commissioning is password-protected to prevent unauthorized changes. Each CB Line field controller automatically detects the presence of the CBT-STAT, and selfconfigures to utilize the CBT-STAT as the control interface. In Engineering Mode, the display can be used as the setup and commissioning tool. The CBT-STAT can be used to setup the communications parameters, all the default settings and do complete balancing of the VAV box.

Description	Order details	
	Type code	Order code
Intelligent Room Control Display w/ Temp sensor (any CBT product supported).	CBT-STAT	2CQG505506R2021
Intelligent Room Control Display w/ Temp & Humidity sensor (any CBT product supported).	CBT-STAT-H	2CQG505507R2021

UCU Room Keypad

UCU Room Keypad

A dedicated room control display for fan coil control. The programmable display allows the user to view and adjust selected parameters within the controller to which it is connected.
Note: Only compatible with UCU10FC/K and CB Line.

Description	Order details	
	Type code	Order code
A dedicated room control display for fan coil control. The programmable display allows the user to view and adjust selected parameters within the controller to which it is connected. Note: Only compatible with the UCU10FC/K, UCU10VAV/K CBT12 and CBX-8R8 controllers.	UCU-KEY-PAD	2CQG256501R1021

ABB Cylon®
Sensors - Wired

Room Temperature Sensor (WRF04)

Room Temperature Sensor

Description	Order details	
	Type code	Order code
NTC10k, -35...+70°C, Housing: ABS, pure white (RAL9010), IP20, 84.5 x 84.5 x 25mm, Surface Mounting.	WRF04	2CQG505113R2021

Room Temperature Sensor (WRF04P)

Room Temperature Sensor with adjust

Description	Order details	
	Type code	Order code
NTC10k, -35...+70°C, Housing: ABS, pure white (RAL9010), IP20, 84.5 x 84.5 x 25mm, Surface Mounting, Potentiometer 5 kΩ, 3-wire conductor (-,0,+).	WRF04P	2CQG505114R2021

Duct Temperature Sensor (AKF1046507)

Duct Temperature Sensor 465 mm

Description	Order details	
	Type code	Order code
NTC10k, -50...+150 °C, Connection head: Polyamide white, IP65, Probe: 465 x 7 mm, 316Ti Stainless Steel.	AKF1046507	2CQG505105R2021

Mounting Flange

Description	Order details	
	Type code	Order code
Material PA6.6 glass ball reinforced D = 55mm, Colour black, for sensor pocket D = 7 mm.	MF7	2CQG505804R2021

ABB Cylon®
Sensors - Wired

Outdoor Temperature Sensor (AGS54)

Outdoor Temperature Sensor

Description	Order details	
	Type code	Order code
NTC10k, -50...+90 °C, Housing: Polyamide white, IP65, 65 x 50 x 37.5 mm.	AGS54	2CQG505101R2021

Contact Temperature Sensor (VFG54)

Contact Temperature Sensor

Description	Order details	
	Type code	Order code
NTC10k, -35...+120 °C, Housing: Polyamide white, IP65, 65 x 50 x 37.5mm, Clamp not supplied.	VFG54	2CQG505112R2021

62 mm Immersion Temperature Sensor (AKF106207)

Immersion Temperature Sensor 62 mm

Description	Order details	
	Type code	Order code
NTC10k, -50...+150 °C, Connection head: Polyamide white, IP65, Probe: 62 x 7 mm, 316Ti Stainless Steel.	AKF106207	2CQG505106R2021

Immersion Pocket Stainless Steel (THVA 50 x 10 x 1 mm)

Immersion Pocket Stainless Steel 50 mm

Description	Order details	
	Type code	Order code
50 x 10 x 1 mm, 316Ti Stainless Steel, SW24, G½", ISO 228T1, PN40, Use with AKF106207.	THVA	2CQG505111R2021

Immersion PocketBrass (THMS 50 x 10 x 1 mm)

Immersion Pocket Brass 50 mm

Description	Order details	
	Type code	Order code
50 x 10 x 1 mm, Brass nickel-plated, SW22, G½", PN16, use with AKF106207.	THMS	2CQG505805R2021

ABB Cylon®
Sensors - Wired

135 mm Immersion Temperature Sensor 135mm (AKF1013507)

Immersion Temperature Sensor 135 mm

Description	Order details	
	Type code	Order code
NTC10k, -50...+150 °C, Connection head: Polyamide white, IP65, Probe: 135 x 7 mm, 316Ti Stainless Steel.	AKF1013507	2CQG505103R2021

Immersion Pocket Brass (THMS 120 x 10 x 1 mm)

Immersion Pocket Brass 120 mm

Description	Order details	
	Type code	Order code
120 x 10 x 1mm, Nickel-plated, SW22, R½", PN 16, use with AKF1013507.	THMS 120x10x1mm	2CQG505806R2021

Room Air-Quality Sensor (LW04)

Room Air-Quality Sensor (LW04)

Description	Order details	
	Type code	Order code
Output: 0...10 V, Uv = 15...24V DC / 15...24 V AC, Housing: ABS, pure white (RAL9010), IP20, 84.5 x 84.5 x 25 mm.	LW04	2CQG505110R2021

SRE-REPEATER

SRE-REPEATER

Description	Order details	
	Type code	Order code
Power supply: 230 V AC 50/60Hz, Antenna: Internal, Housing: PA6, IP65, Colour: Pure white.	SRE-REPEATER	2CQG505808R2021

ABB Cylon®

Demonstration & Technical Services

Description	Order details	
	Type code	Order code
The net daily rate for a Cylon Engineer on-site support (excluding travel, accommodation & subsistence expenses which are charged additionally at cost).	SUP-SITE	2CQG204007R5021
Cylon runs open engineering and installation training courses at its offices. This is the net daily rate per person. Visit support.cylon.com for booking details.	TRA-CYL	2CQG204003R5021
Cylon provides off-site training on request for specific customers. This is the net daily rate for the course for up to 2 attendees (excluding travel, accommodation & subsistence expenses which are charged additionally at cost).	TRA-OFF	2CQG204005R5021
For off-site training additional attendees are charged at this net daily rate per person.	TRA-OFF-ADD	2CQG204006R5021
For open courses attendees may cancel up to 2 weeks in advance. If cancellation is made less than 2 weeks in advance of the course the following net daily cancellation rate per person applies.	TRA-CAN	2CQG204004R5021
Change any Hardware Dongle to the equivalent Soft Dongle.	HD-SW-EX	2CQG603704S5021
Move a Software licence (Soft Dongle) from one PC to another PC.	PC-PC-EX	2CQG603705S5021
The net daily rate for a Cylon Engineer on-site support (including travel, accomodation & subsistence expenses) during our normal working hours 9.00am-5.00pm. Exludes weekends and bank and public holidays which will be charged at a higher rate.	SUP-SITE-EX	2CQG204008R5021
The Cylon Fidelio Gateway provides an interface between Unitron BEMS networks and Micros Fidelio system, allowing UnitronUC32 to read room check-in status. The gateway supports up to 2,000 datapoints (rooms). Note: Must be ordered with additional TSG services.	UNI-FID-GW	2CQG255903R1021

CBX/FLX Demo Suitcase

CBX/FLX Demo Suitcase

	Order details	
Description	Type code	Order code
Aspect® Demonstration case containing: MATRIX, CBX, FLX and Touchscreen. (Europe).	CBX-DEM-CSE-E	2CQG205802R5021
Aspect® Demonstration case containing: MATRIX, CBX, FLX and Touchscreen. (UK/IE).	CBX-DEM-CSE-UK	2CQG205803R5021
Aspect® Demonstration case containing: MATRIX, CBX, FLX and Touchscreen. (US/CA).	CBX-DEM-CSE-US	2CQG205801R5021

ABB Cylon®
Other

EIBAS-100T/R

EIBAS-100T/R
Ethernet switch - Din rail mounted 5 ports. Auto port polarity detection. PSU 24V AC.

Description	Order details	
	Type code	Order code
Ethernet switch - Din rail mounted 5 ports. Auto port polarity detection. PSU 24V AC.	EIBAS-100T/R	2CQG605801R2021

UC16 to PC Cable
UCU Molex female to 9 Pin D-Type female PC serial communication cable, 2m. Used for PC to UCU commissioning.

Description	Order details	
	Type code	Order code
UCU Molex female to 9 Pin D-Type female PC serial communication cable, 2m. Used for PC to UCU commissioning.	UC16-PCC	2CQG255701R1021

ABB Cylon®
Spares

UCKRA420

UCKRA420

Panel mounted, surface mounted or handheld remote serial display and keypad with 2m cable for connection to compatible controllers (UC32.netK, UC32.xx, UCxxPG-R, UCC4/3P/K). Limited compatibility with BACnet® controllers. Does not support BACnet® objects.

Description	Order details	
	Type code	Order code
Keypad interface which allows conditions on a Unitron site to be viewed and changed. It can also be used to configure UC32 controllers.	UCKRA420	2CQG202014R1021

Room Temperature Sensor with Pot. & Button (WRF04PT)

Room Temperature Sensor with adjust and override

- Measuring insert: 1x NTC 10 kΩ
- Temperature range: -35...+70 °C
- Housing: ABS, pure white (RAL9010), IP20
- L 84.5 x B 84.5 x H 25 mm

Description	Order details	
	Type code	Order code
NTC10k, -35...+70°C, Housing: ABS, pure white (RAL9010), IP20, 84.5 x 84.5 x 25 mm, Surface Mounting, Potentiometer 5 kΩ, 3-wire conductor (-,0,+), Switch close contact, max. load 600 mW.	WRF04PT	2CQG505115R2021

192 mm Duct Temperature Sensor (AKF1019207)

Duct Temperature Sensor 192 mm

- Measuring insert SI-Protection: 1 x NTC10k
- Temperature range: -50...+150°C
- Material: 316Ti Stainless Steel
- Connection head: Polyamide white IP65
- Probe: SH EL = 192 x 7 mm

Description	Order details	
	Type code	Order code
NTC10k, -50...+150 °C, Connection head: Polyamide white, IP65, Probe: 192 x 7 mm, 316Ti Stainless Steel.	AKF1019207	2CQG505104R2021

ABB Cylon®

Withdrawn Product/Spares

CBM24

Description	Order details	
	Type code	Order code
UC32 RJ-45 connector male (plug) to 9 pin D-type female PC commissioning cable.	UC32-CC	2CQG255703R1021
24-Point BACnet B-AAC programmable controller for control and monitoring of small plant or HVAC equipment. Controller features 8 UniPutsTM with Relay outputs (software configured for AI, AO, DI or DO-R (Relay), 8 UI and 8 UniPutsTM (software configured for AI, AO, DI, or DO (using AO with external relay). Maximum of 1024 strategy blocks.	CBM24	2CQG201011R1021
NTC10k, -35...+70 °C, Housing: ABS, pure white (RAL9010), IP20, 84.5 x 84.5 x 25mm, Temperature range: Operating elements: Potentiometer 1 kOhm (-,0,+) Rotary Switch (Auto, 0,I,II,III).	WRF04FC	2CQG505116R2021
Web server based supervisor software for Unitron systems. Licence for 1 web user at a time. Note: There is a cost associated with transferring this licence. Please contact support@cylon.com before transferring the licence.	SVR-WEB-1S	2CQG253005S3021
Web server based supervisor software for Unitron systems. Licence for 2 simultaneous web users. Note: There is a cost associated with transferring this licence. Please contact support@cylon.com before transferring the licence.	SVR-WEB-2S	2CQG253006S3021
Web server based supervisor software for Unitron systems. Licence for 3 simultaneous web users. Note: There is a cost associated with transferring this licence. Please contact support@cylon.com before transferring the licence.	SVR-WEB-3S	2CQG253007S3021
Web server based supervisor software for Unitron systems. Licence for 4 and above simultaneous web users. Note: There is a cost associated with transferring this licence. Please contact support@cylon.com before transferring the licence.	SVR-WEB-UNLS	2CQG253008S3021
Power Supply: Solar energy, Maintenance free, Measuring Range: 0...40°C, Accuracy (5...35°C): ±0,4K, Housing: ABS (ASA), IP20, Colour white similar RAL 9010.	SR04	2CQG505201R2021
Power Supply: Solar energy, Maintenance free, Measuring Range: Humidity 0...100% Temperature 0...40°C, Accuracy: Humidity 1 Point Calibration 50%: ±3% Range (30%...70)%: ±4%, Accuracy: Temperature (5...35°C): ±0,4K, Housing: ABS (ASA), IP20, Colour white similar RAL 9010.	SR04RH	2CQG505202R2021
Power supply: Battery 3 V Type CR1620, Measuring Range: 10...90 °C, Accuracy (15...85 °C): ±0.8 K, Housing: PA6, IP65, Colour: white, Clamp not supplied.	SR65VF GBAT	2CQG505204R2021
Serial to RJ12 adapter for CBT. Allows CBT to be configured using legacy Serial port.	Serial to RJ12 adapter	2CQG205702R1021
UCC4.net 9 pin D-type male, UCU service port Molex female to 9 pin D-type male plug serial communication adapter, 15 cm. Requires hand held device with suitable 9 pin D-type socket serial cable (not supplied).	UCC4/ UCU-SPC	2CQG255704R1021
RS485 MODBUS Protocol, Power supply: 15-24 V DC or 24 V AC ±10 %, Interface: RS485 - MODBUS, Antenna: Internal, Housing: ABS, IP20, Colour white similar RAL9010.	SRCRS485 MODBU S	2CQG505807R2021