

HEIDELBERG, JUNE 2021

# Webinar “ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1”

Competence Center Europe – Smart Buildings

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# Agenda

Introduction

Application and Benefits

Device features

Marketing

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# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

Introduction

# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Introduction



The IP infrastructure plays an important role in the reliability and availability of all building functions

The increasing dependence on IP infrastructures for the reliability and availability of the building functionality plays a key factor in the design of the IP infrastructure

This is driving the requirement for a cost-effective IP infrastructure within the distribution board or decentral installation boards

# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Introduction



Building Automation market is increasingly including IP connections on the field level

Additionally, the use of PoE technology in field level devices is rising, e.g. ABB i-bus® KNX IP Router or IP Interface

Separate technical IP infrastructures or networks are becoming more common place in buildings

# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Introduction



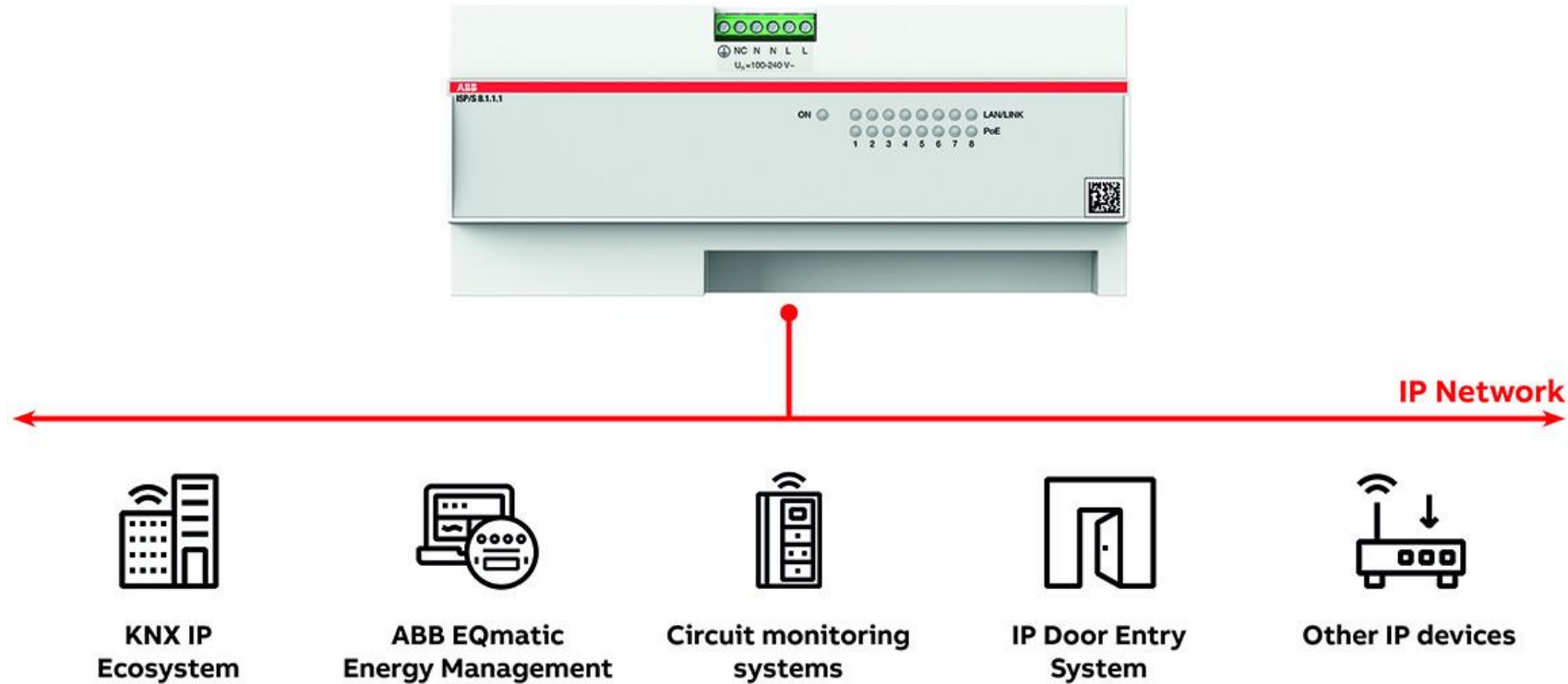
The new ABB IP Switches are two

- Industrial quality standard
- 8 Ports
- fast Ethernet (100 Mbit/s)
- unmanaged

switches (with and without PoE) designed for installation in electrical distribution boards and rapid mounting on DIN-Rails.

# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Introduction



The new ABB IP Switches are suitable for all applications, segments and markets in which distribution boards with DIN-Rail devices requiring IP connectivity.



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# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

Application and Benefits



# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Application and Benefits



### Special Design

The MDRC device is suitable for installation in standard electrical distribution boards. The IP connection ports are secured under the distribution board cover preventing unauthorized access

- Professional, secure and clean installation
- Saves installation time and space



### Maximum Reliability

Robust, industrial-grade, Made in Germany:

- High and long-term reliability
- Industrial quality standard



### Compact technology

The PoE variant provides supply voltage on all its 8 ports without the need of extra external power supply:

- Saves installation space
- Reduces costs



### Easy installation

Plug-and-play installation, no commissioning required:

- No special skills to install and use are needed



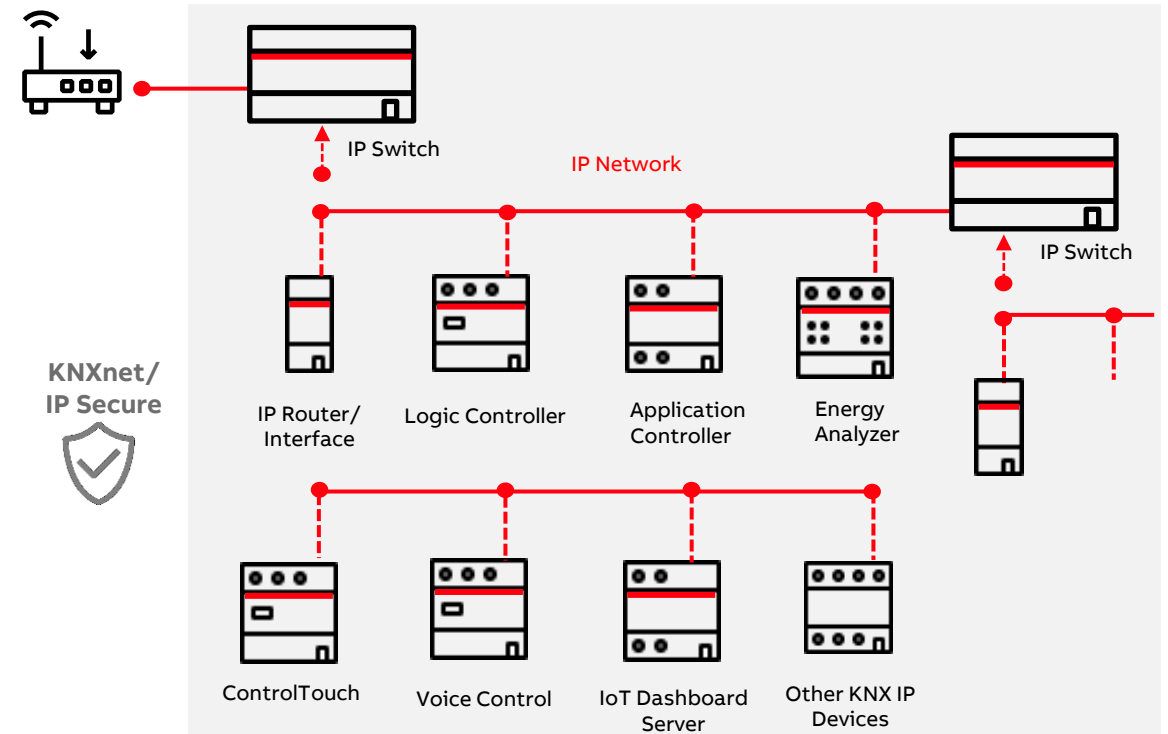
# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Application and Benefits

### ABB i-bus® KNX

- IP Router IPR/S 3.1.1\* and IP Router Secure IPR/S 3.5.1\*
- IP Interface IPS/S 3.1.1\* and IP Interface Secure IPS/S 3.5.1\*
- Logic Controller ABA/S 1.2.1\*
- ABB EQmatic Energy Analyzer QA/S 1.16.1
- ClimaECO Application Controller AC/S 1.1.1
- ClimaECO Building Automation Controller BAC/S1.5.1
- KNX Security Panel GM/A 8.1
- Busch-ControlTouch® 6136/APP-500
- Busch-VoiceControl® VCO/S 99.1
- KNX IoT Dashboard Server DBS/S 1.1.1.1
- IP touch 7 / 10 LAN\*

\* Data and PoE



# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Application and Benefits

### ABB-free@home®

- System Access Point
- IP touch 7 / 10 LAN\*

\* Data and PoE



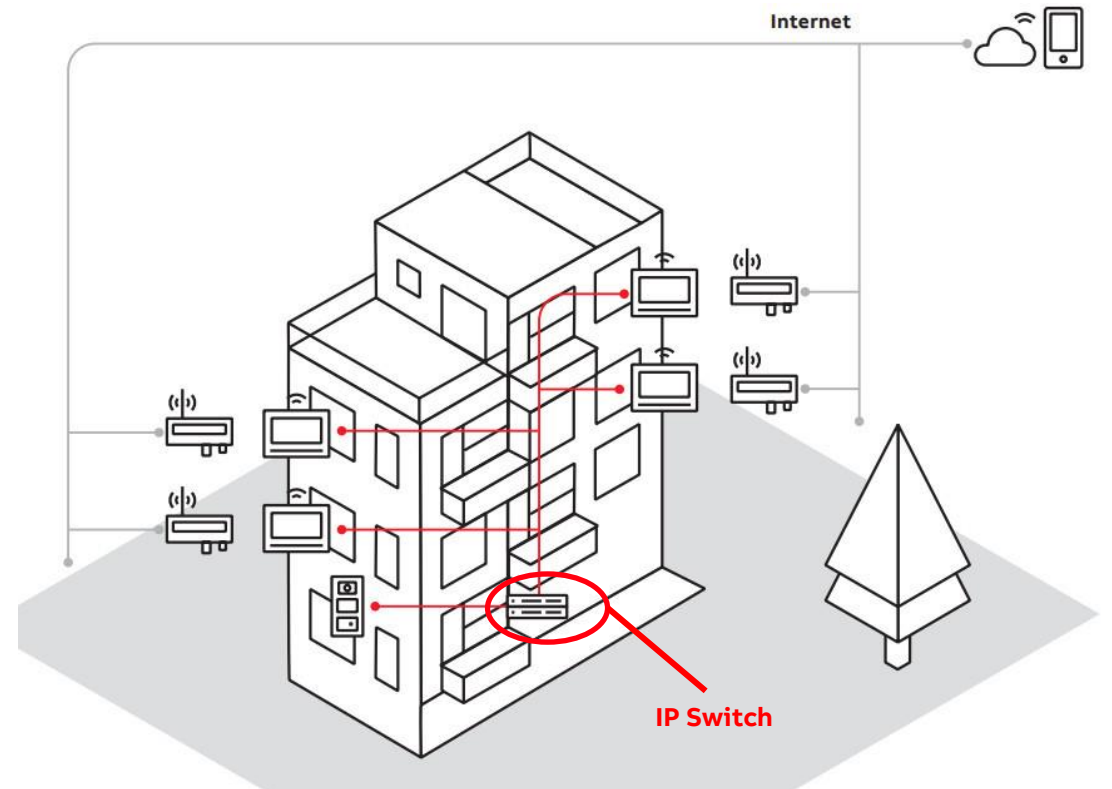
# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Application and Benefits

### Door entry systems

- ABB-Welcome IP
  - Video Outdoor Station\*
  - Video Indoor Station IP touch 7 and 10\* and Guard Unit
  - Smart Access Point\*
  - IP Actuator
- ABB-Welcome (2-wire)
  - IP-Gateway

\* Data and PoE

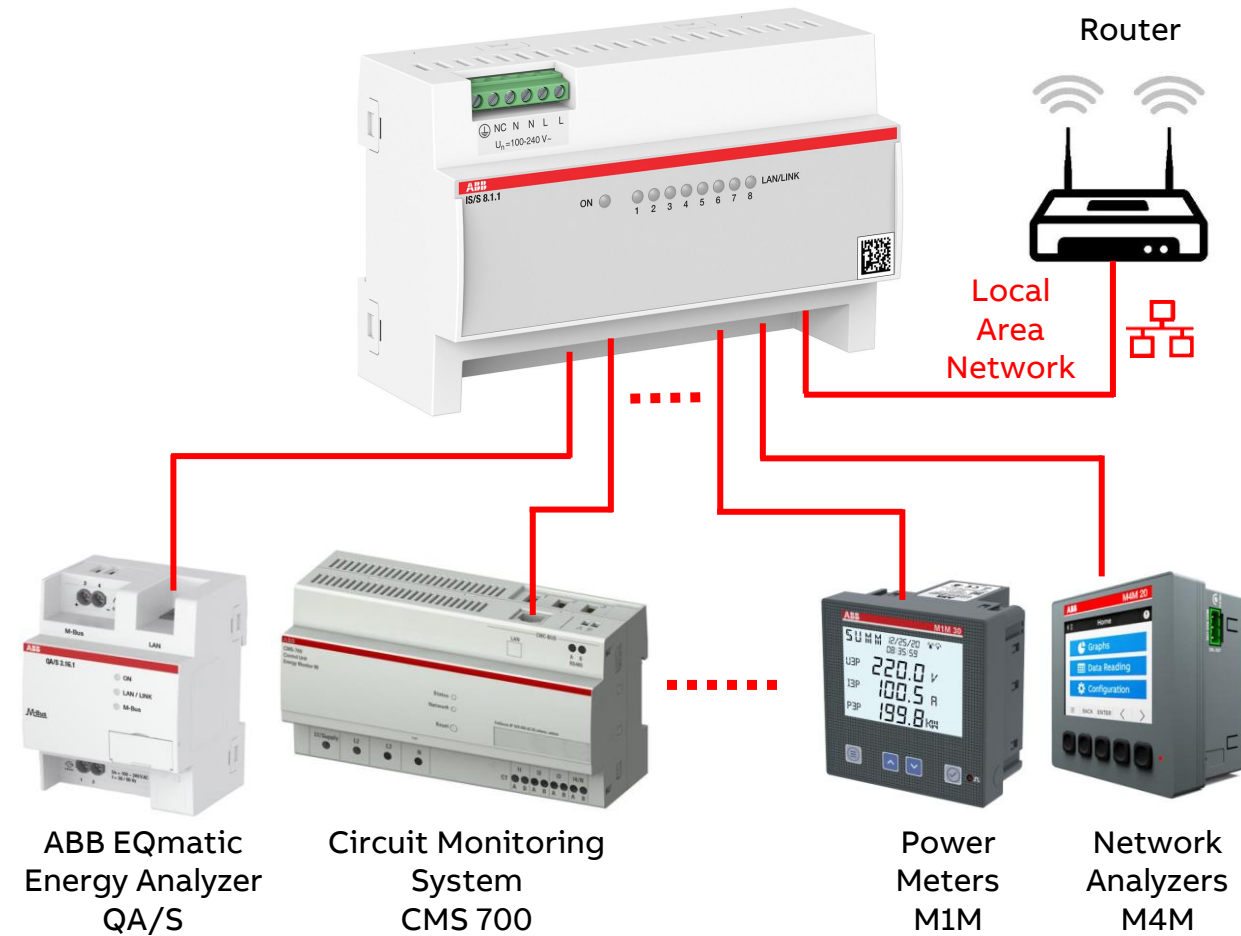


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Application and Benefits

### DIN-Rail and other devices

- ABB EQmatic Energy Analyzer QA/S
  - QA/S 3.xx.1 Energy Analyzer, M-Bus
  - QA/S 4.xx.1 Energy Analyzer, Modbus
- Circuit Monitoring System CMS 700
- InSite Pro Control Unit SCU100
- Network Analyzers M4M
  - M4M 20 Ethernet
  - M4M 30 Ethernet
- Power Meters
  - M1M 20 Ethernet
  - M1M 30 Ethernet
- ...

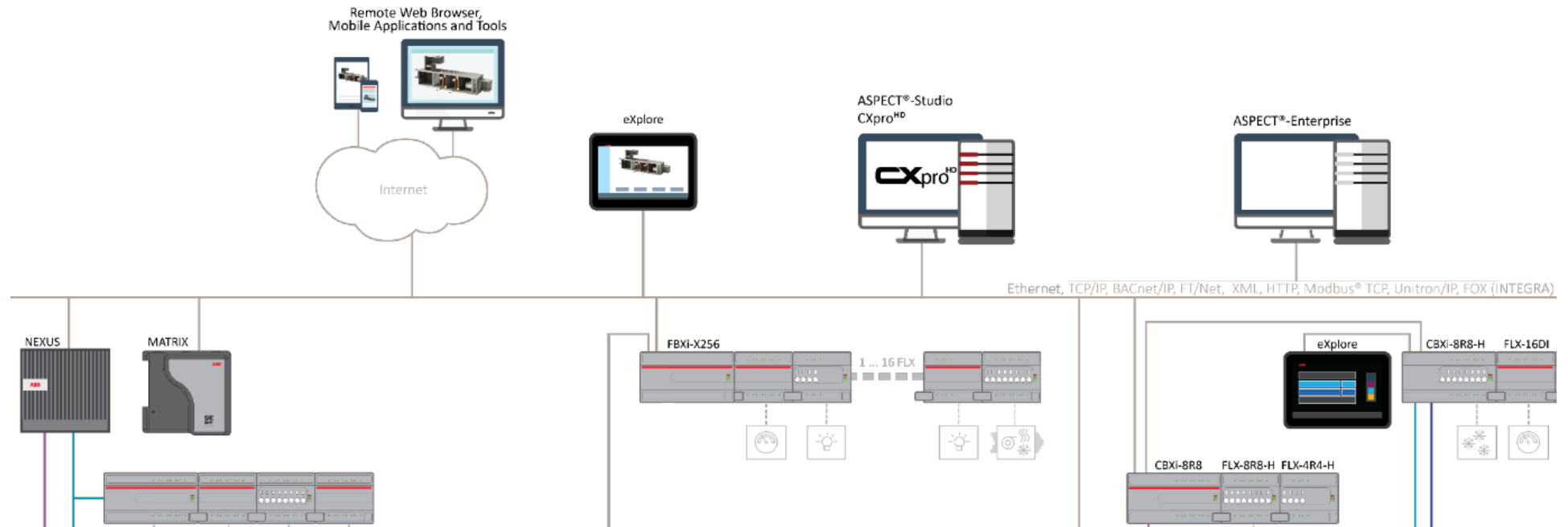


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Application and Benefits

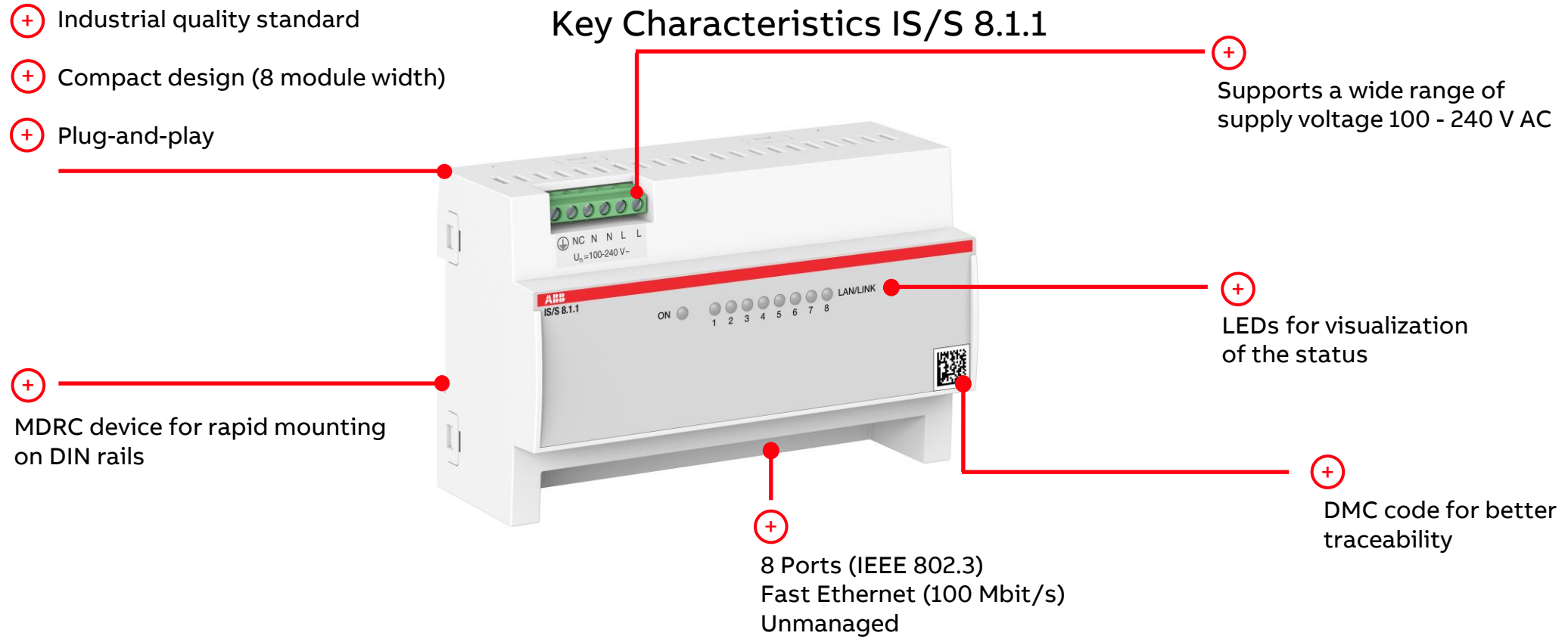
### ABB Cylon®

- HVAC Controller
  - CBXi
  - FLXeon FBXi
- Variable Air Volume Controller FLXeon FBVi
- Room Display eXplore
- Visualization Nexus and Matrix
- Integra™ Building Control IT-8000



# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Application and Benefits



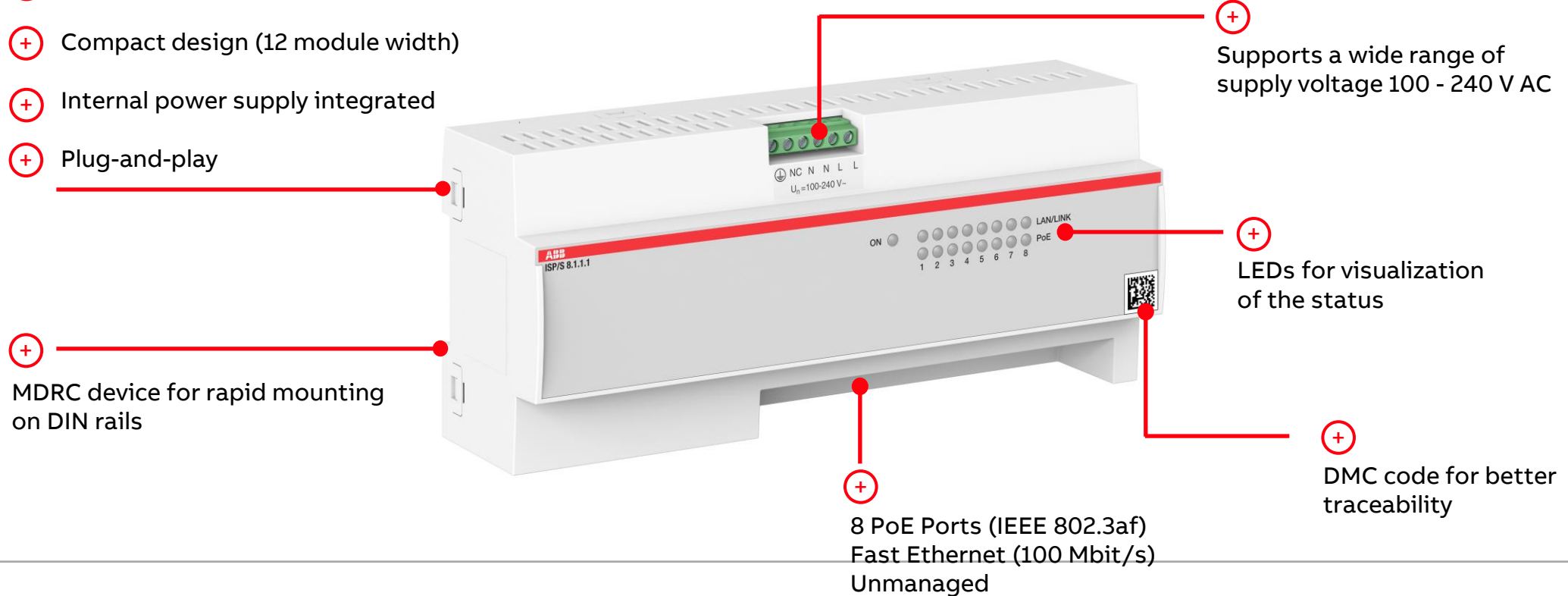


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Application and Benefits

- + Industrial quality standard
- + Power over Ethernet (55 w)
- + Compact design (12 module width)
- + Internal power supply integrated
- + Plug-and-play

### Key Characteristics ISP/S 8.1.1.1



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# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

Device features

# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### General information

- The IP Switches
  - are designed for the special requirements of building automation
  - meets the relevant industry standards, provides very high operational reliability, even under extreme conditions and also long-term reliability and flexibility
  - are designed for installation in electrical distribution boards and small housings for rapid mounting on a 35 mm mounting rail in accordance with EN 60715

Product name	Type	Order Code
IP Switch	IS/S 8.1.1	2CDG120082R0011
IP Switch-PoE	ISP/S 8.1.1.1	2CDG120083R0011



# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### Scope of delivery

- 1 x IP Switch IS/S 8.1.1 or 1x IP Switch ISP/S 8.1.1.1
- 1 x Installation and operating instructions
  - DE, EN, FR, NL, ES, IT, PL, RU, CN
- The IP Switches are available and on stock



Montage- und Betriebsanleitung  
Installation and Operating Instructions  
Mode d'emploi  
Instrucciones de montaje de servicio  
Istruzioni per l'uso  
Montage- en bedieningshandleiding  
Instrukcja montażu i eksploatacji  
Руководство по монтажу и эксплуатации  
安装和操作手册

#### IS/S 8.1.1

- DE IP-Switch, 8 Ports, Fast Ethernet, REG
- EN IP Switch, 8 Ports, Fast Ethernet, MDRC
- FR IP Switch, 8 Ports, Fast Ethernet, MRD
- ES IP Switch, 8 Puertos, Fast Ethernet, MDRC
- IT IP Switch, 8 Porte, Fast Ethernet, MDRC
- NL IP Switch, 8 Ports, Fast Ethernet, MDRC
- PL IP Switch, 8 Porty, Fast Ethernet, MDRC
- RU IP Switch, 8 Portov, Fast Ethernet, MDRC
- CN IP交换机, 8端口, 快速以太网, 导轨安装

Montage- und Betriebsanleitung  
Installation and Operating Instructions  
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安装和操作手册

#### ISP/S 8.1.1.1

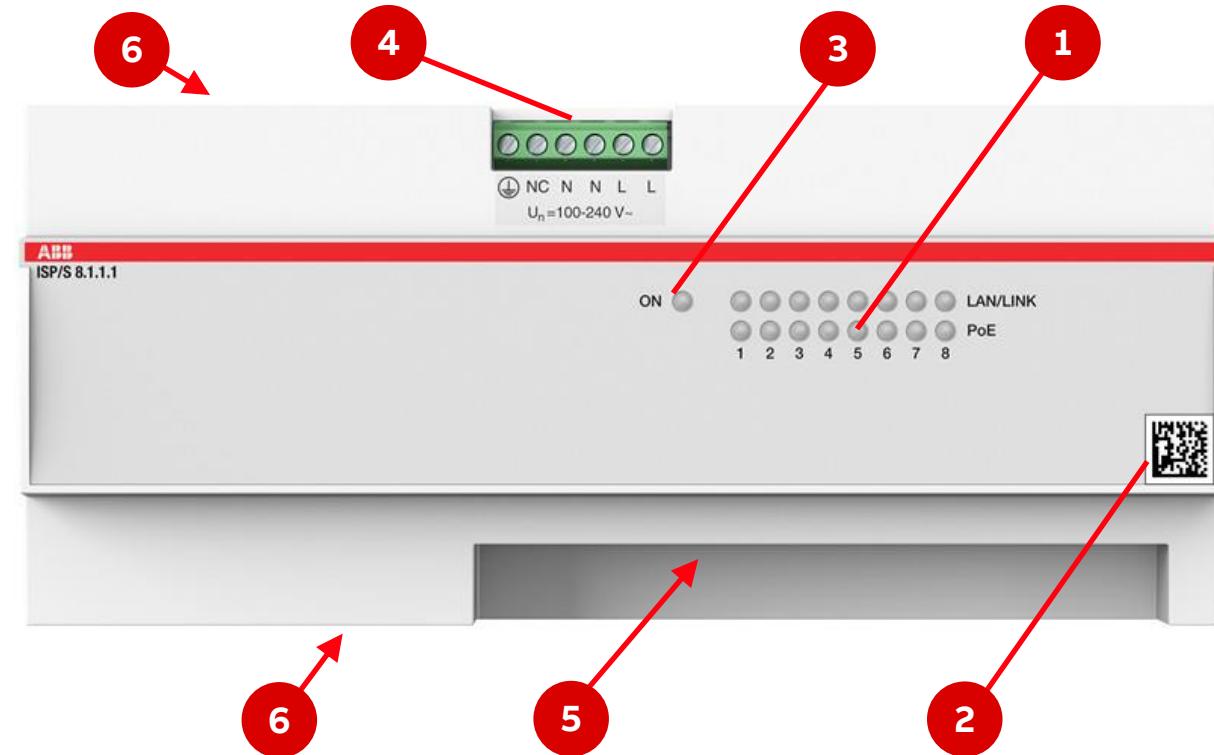
- DE IP-Switch-PoE, 8 Ports, Fast Ethernet, REG
- EN IP Switch PoE, 8 Ports, Fast Ethernet, MDRC
- FR IP Switch PoE, 8 Ports, Fast Ethernet, MRD
- ES IP Switch PoE, 8 Puertos, Fast Ethernet, MDRC
- IT Switch IP PoE, 8 porte, Fast Ethernet, DINr
- NL IP Switch PoE, 8 Ports, Fast Ethernet, DINr
- PL IP Switch PoE, 8 Porty, Fast Ethernet, REG
- RU IP коммутатор PoE, 8 портов, Ethernet, MDRC
- CN IP交换机, 8端口 PoE, 高速以太网, 导轨安装

# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### Connection diagram

- (1) LED display elements for port status and PoE status
- (2) Data matrix code (NEW!)
- (3) LED display element for device status
- (4) 6-pin terminal block with screw lock  
Earth Symbol: Protective earthing  
NC: Not connected  
N: Neutral  
L: Line
- (5) 8 × RJ45 socket for 10/100-Mbit/s Twisted Pair connections  
Ports secured under the distribution board cover  
→ no unauthorized access
- (6) Ventilation slits

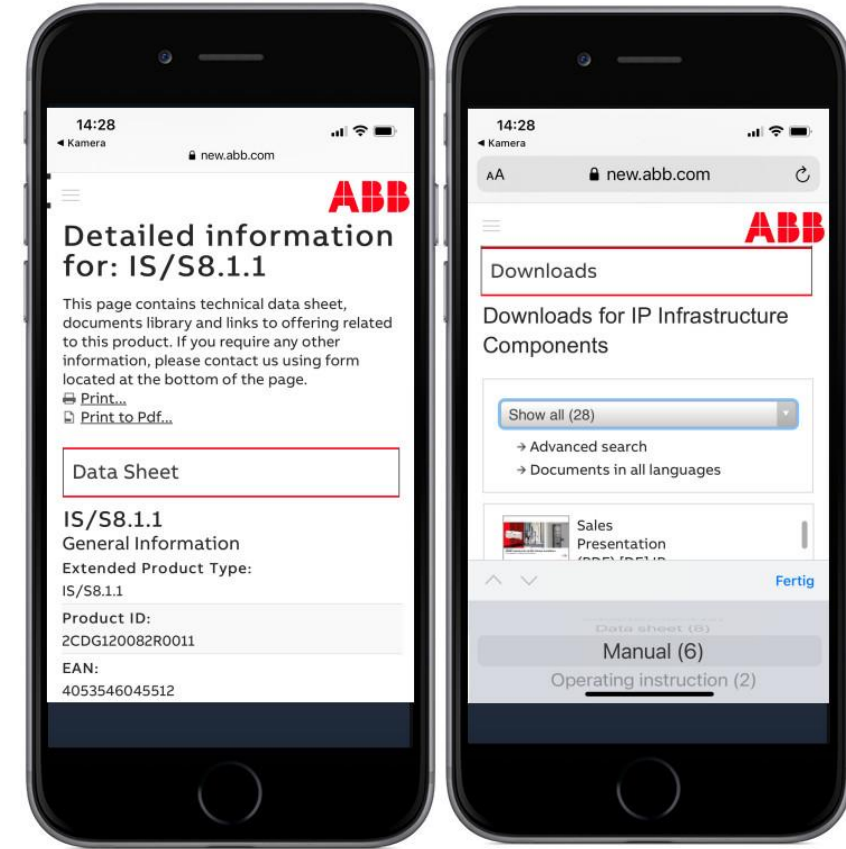


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### QR and Data matrix code (DMC) – NEW!

- The packaging is labeled with a QR code and the front of the device with a data matrix code
- These codes are used for unique identification of the device and include the following information:
  - Link to the product page
  - Order number
  - Device serial number
- The codes can be read using any mobile device with an appropriate app



# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

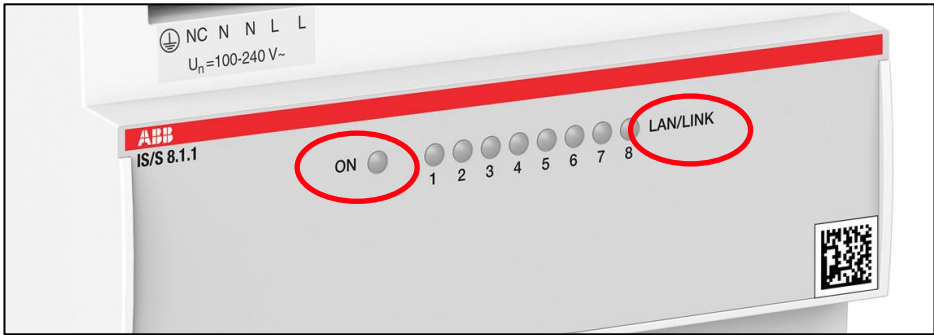
## Device features

### Display elements

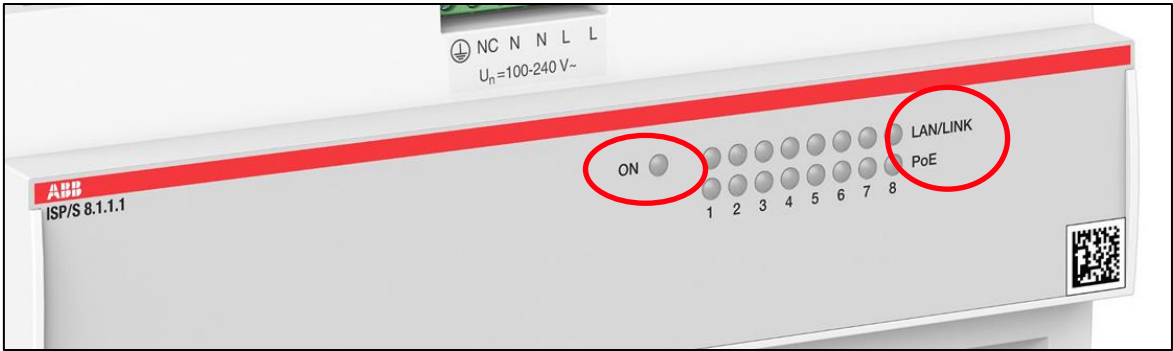
- This LED provides information on the status of the power supply
- After the supply voltage is switched on, the device performs a self-test. During this process, various LEDs light up

LED	Color	Activity	Meaning
ON	Green	Lights up	Supply voltage is on. Device is ready for operation.
		None	Supply voltage is too low. Device is not ready for operation.
LAN/ Link	Green	Lights up	Device detects a valid link
		Flashing	Device is transmitting and/or receiving data
		None	Device detects an invalid or missing link
PoE*	Green	Lights up	Powered device is supplied with power
		Flashing one time a second	No power supply of the powered device as the power output required by the powered device cannot be provided on this port.
		None	No powered device connected

\*only IP Switch-PoE ISP/S 8.1.1.1



IP Switch IS/S 8.1.1



IP Switch-PoE ISP/S 8.1.1.1

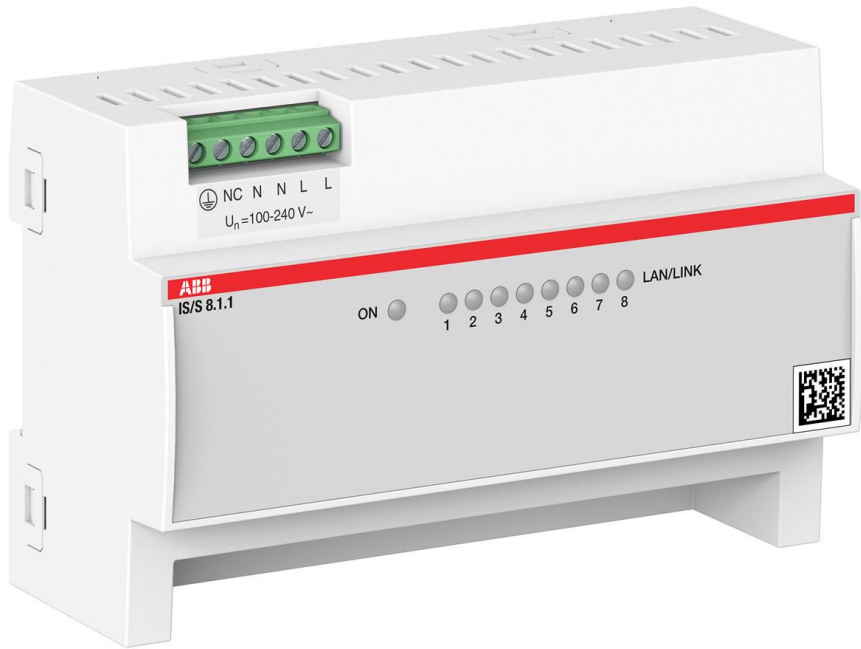


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### IP Switch IS/S 8.1.1: Technical Data

Dimensions (W × H × D)	140 x 90 x 58
Modular width	8 MW Modular installation device (MDRC)
Mounting Position	Any
Supply voltage (Rated voltage range):	100 V AC ... 240 V AC, 50 Hz ... 60 Hz
Power consumption	Max. 1.4 W
Ambient air temperature	-5 °C ... +60 °C

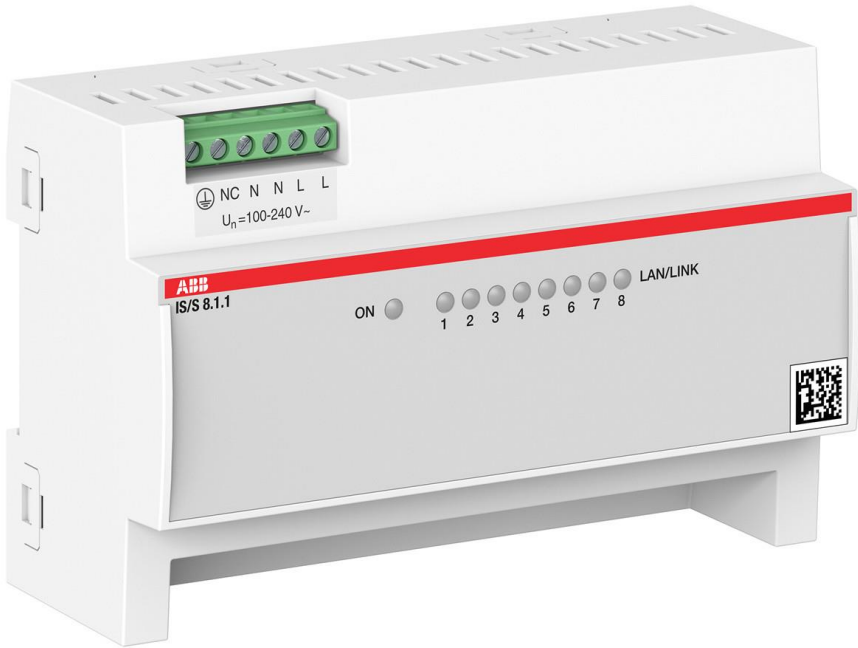


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### IP Switch IS/S 8.1.1: Technical Data

8 Ethernet Ports	<ul style="list-style-type: none"><li>•10/100-Mbit/s twisted pair port according to the IEEE 802.3 10BASE-T/100BASE-TX standard</li><li>•To connect terminal devices and other network segments (IP Switches)</li></ul>
Port supports	<ul style="list-style-type: none"><li>•Autonegotiation</li><li>•Autopolarity</li><li>•Autocrossing</li><li>•100 Mbit/s half-duplex mode, 100 Mbit/s full duplex mode</li><li>•10 Mbit/s half-duplex mode, 10 Mbit/s full duplex mode</li></ul>
Network range 10/100-Mbit/s twisted pair port	Length of a twisted pair segment: Max. 100 m (for Cat5e cable)

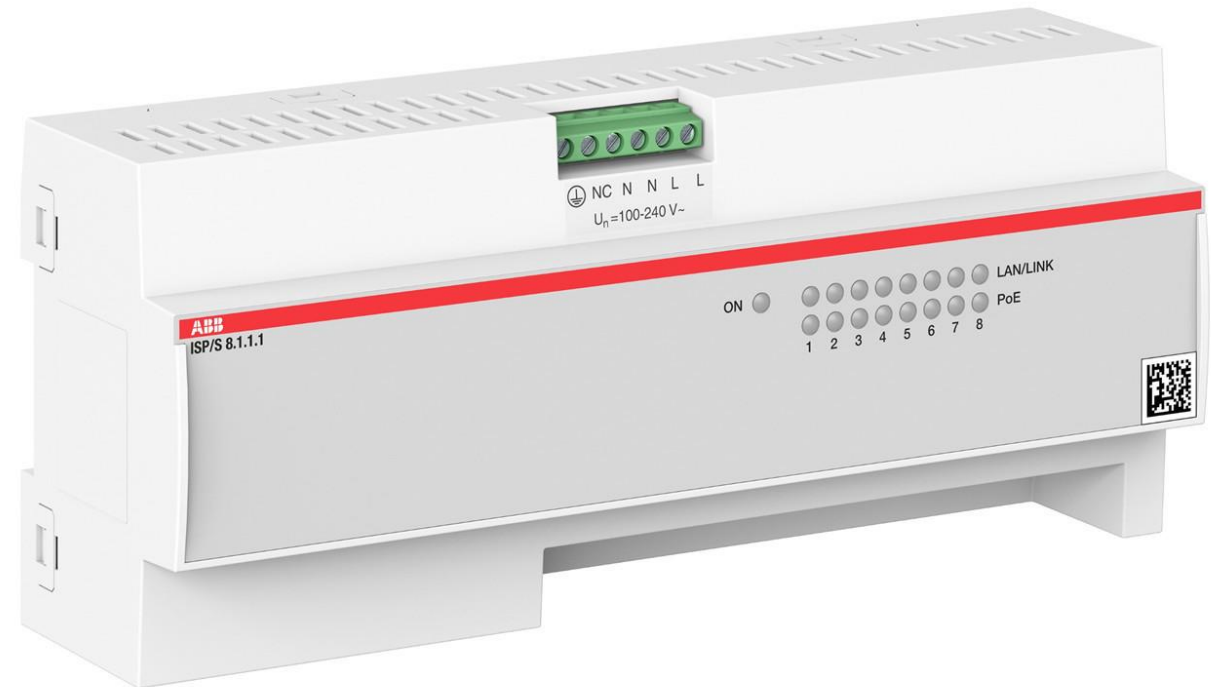


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### IP Switch-PoE ISP/S 8.1.1.1: Technical Data

Dimensions (W × H × D)	210 x 90 x 58
Modular width	12 MW Modular installation device (MDRC)
Mounting Position	Any
Supply voltage (Rated voltage range):	100 V AC ... 240 V AC, 50 Hz ... 60 Hz
Power consumption (without PoE load)	Max. 2.5 W
Power consumption/power output (with PoE load incl. 55 W PoE)	Max. 11 W/55W (max. total 66W)
Ambient air temperature	-5 °C ... +60 °C Derating!



# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### IP Switch-PoE ISP/S 8.1.1.1: Technical Data

#### Note the derating values

- The derating values depend on the ambient air temperature of the power supply unit combined with the PoE load and the input voltage

Ambient air temperature	Permitted PoE load
up to 45 °C	55 W
45 °C ... 50 °C	45 W
50 °C ... 55 °C	37 W
55 °C ... 60 °C	29 W

Input voltage	Derating of PoE load
from 100 V AC	0 W
100 V AC ... 90 V AC	5 W
90 V AC ... 85 V AC	8 W

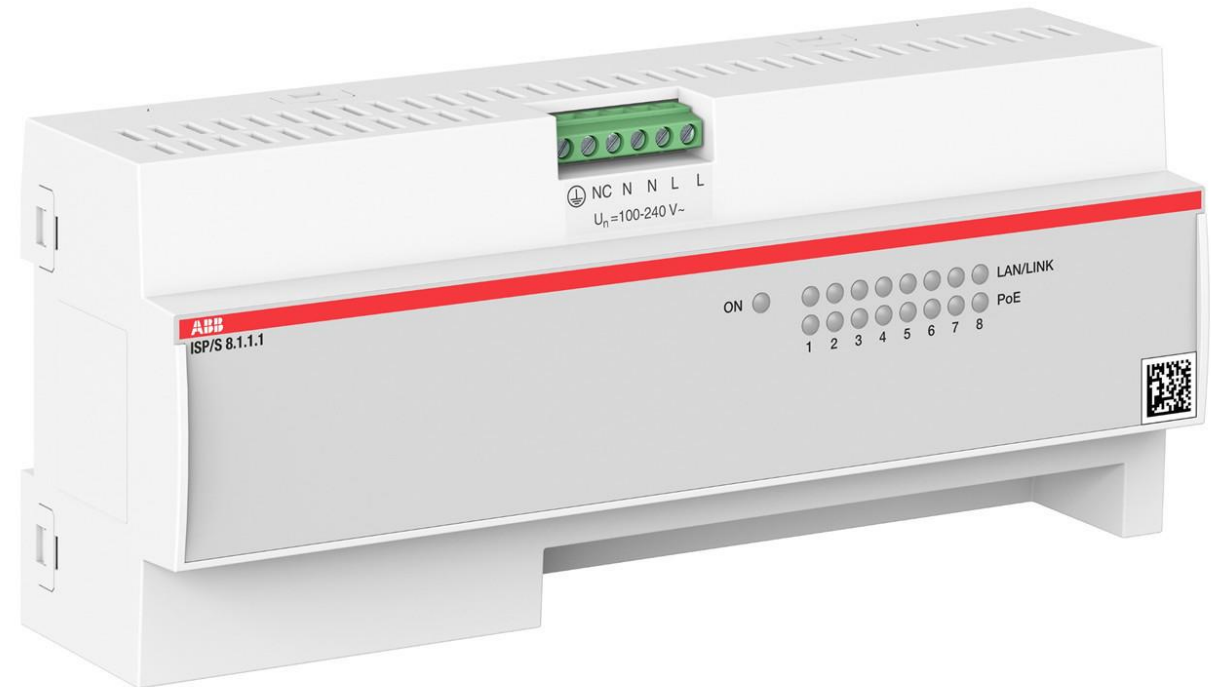


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### IP Switch-PoE ISP/S 8.1.1.1: Technical Data

8 Ethernet Ports with PoE function → Connection of devices with and without PoE function	<ul style="list-style-type: none"><li>• 10/100-Mbit/s twisted pair port according to the IEEE 802.3 10BASE-T/100BASE-TX standard</li><li>• To connect terminal devices and other network segments (IP Switches)</li></ul>
Port supports	<ul style="list-style-type: none"><li>• Autonegotiation</li><li>• Autopolarity</li><li>• Autocrossing</li><li>• 100 Mbit/s half-duplex mode, 100 Mbit/s full duplex mode</li><li>• 10 Mbit/s half-duplex mode, 10 Mbit/s full duplex mode</li></ul>
Network range 10/100-Mbit/s twisted pair port	Length of a twisted pair segment: Max. 100 m (for Cat5e cable)



# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### Power over Ethernet – PoE

From Wikipedia, the free encyclopedia

- Power over Ethernet describes any of several standards or ad hoc systems that pass electric power along with data on twisted pair Ethernet cabling
- This allows a single cable to provide both data connection and electric power to devices such as Wireless Access Points (WAPs), IP cameras and Voice over Internet Protocol (VoIP) phones
- A powered device (PD) is any device powered by PoE, thus consuming energy
- Many powered devices have an auxiliary power connector for an optional external power supply (backup power in case PoE-supplied power fails)



Class	Type	Power required by PoE class at the Powered Device (PD)
1	IEEE 802.3af	3.84 W
2	IEEE 802.3af	6.5 W
3	IEEE 802.3af	12.95 W
4	IEEE 802.3at PoE+	25.5 W
5	IEEE 802.3b PoE++	40 W
6	IEEE 802.3bt PoE++	51 W
7	IEEE802.3bt PoE++	62 W

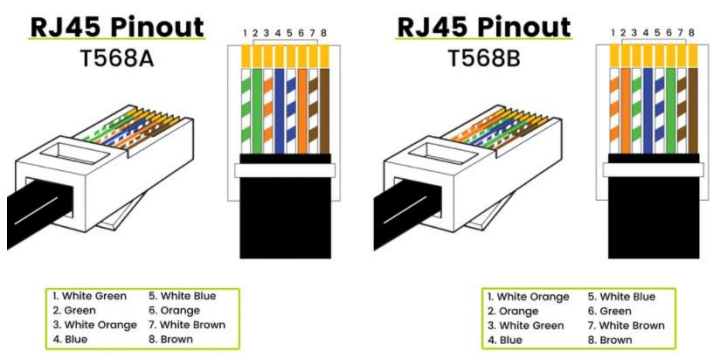
# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### Power over Ethernet – PoE

From Wikipedia, the free encyclopedia

- Three modes, “A”, “B” and “4-pair”, are available to power devices
  - Mode “A” delivers power on the data pairs of 100BASE-TX or 10BASE-T (phantom power technique)
  - Mode “B” delivers power on the spare pairs
  - “4-pair” delivers power on all four pairs



Pins at switch	T568A color	T568B color	10/100 mode B, DC on spares	10/100 mode A, mixed DC & data	
Pin 1	White/green stripe	White/orange stripe	Rx +	Rx +	DC +
Pin 2	Green solid	Orange solid	Rx -	Rx -	DC +
Pin 3	White/orange stripe	White/green stripe	Tx +	Tx +	DC -
Pin 4	Blue solid	Blue solid		DC +	Unused
Pin 5	White/blue stripe	White/blue stripe		DC +	Unused
Pin 6	Orange solid	Green solid	Tx -	Tx -	DC -
Pin 7	White/brown stripe	White/brown stripe		DC -	Unused
Pin 8	Brown solid	Brown solid		DC -	Unused

802.3af standards A and B from the power sourcing equipment perspective



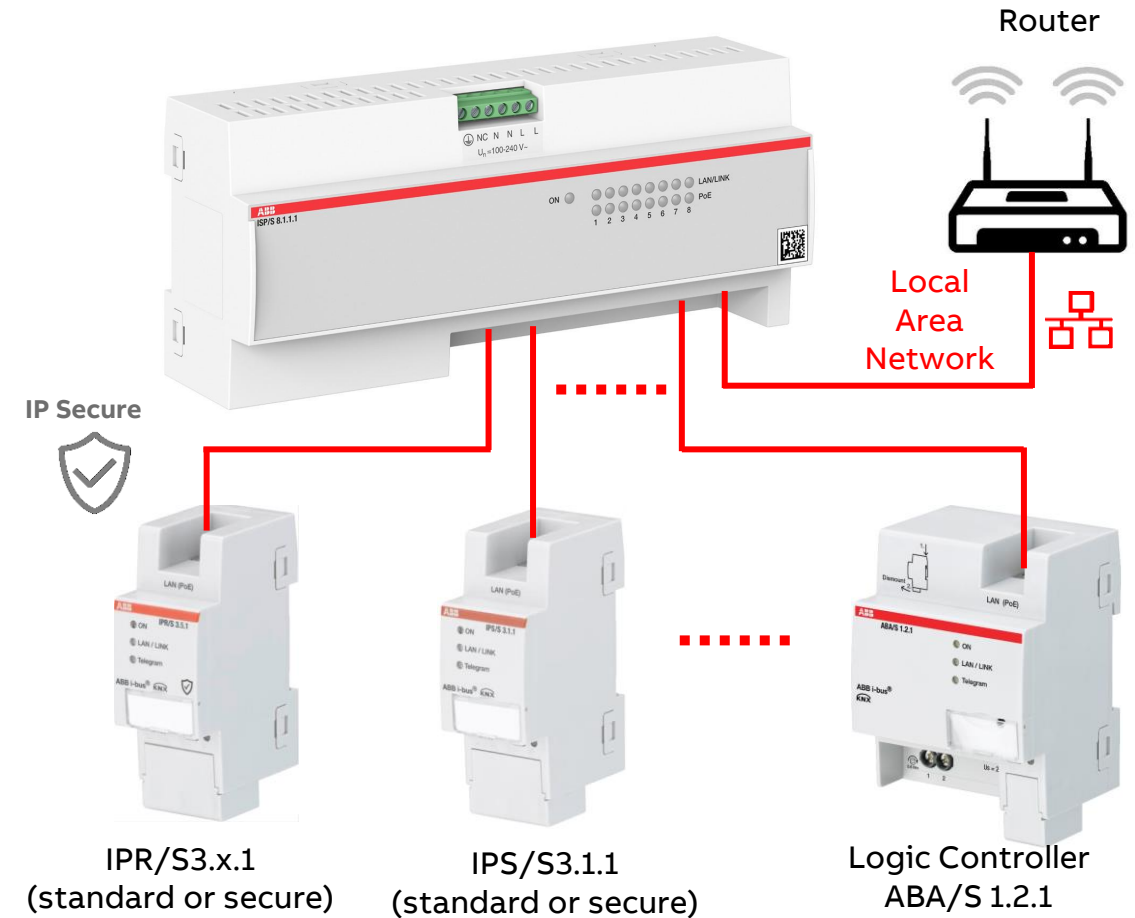
# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### IP Switch-PoE ISP/S 8.1.1.1: Power over Ethernet – PoE

ABB i-bus® KNX devices that can be supplied via PoE

- PoE IEEE 802.3af class 1 (3.84 W)
  - IP Router IPR/S 3.1.1
  - IP Router Secure IPR/S 3.5.1
  - IP Interface IPS/S 3.1.1
  - IP Interface Secure IPS/S 3.5.1 → Power loss of a max. of 1.8 W
- PoE IEEE 802.3af class 2 (6.5 W)
  - Logic Controller ABA/S 1.2.1 → Power loss of a max. of 3 W
- Note on IP Router IPR/S and IP Interface IPS/S:  
If PoE and supply voltage are connected at the same time, PoE is used

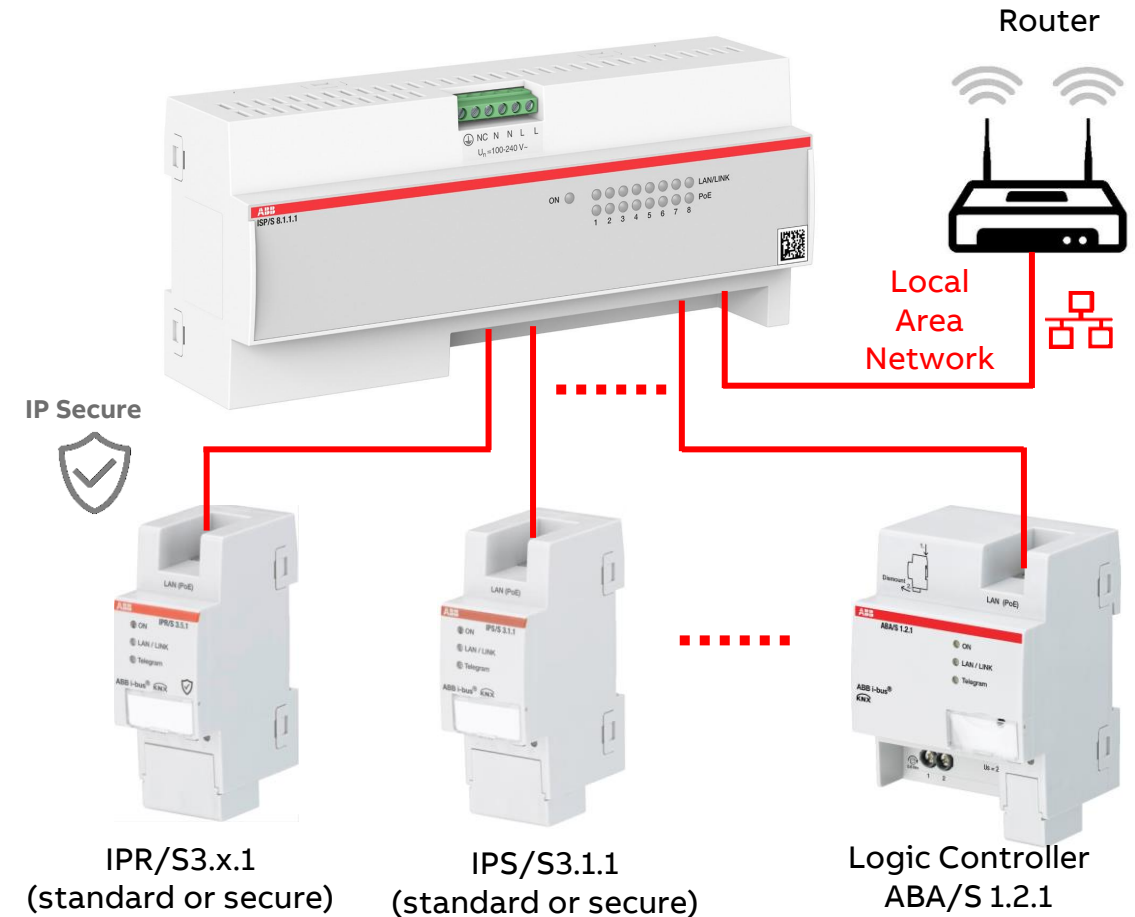


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### IP Switch-PoE ISP/S 8.1.1.1: Support of PoE

- The device supports Power over Ethernet (PoE) in accordance with IEEE 802.3af
- The Power over Ethernet function is activated on the PoE ports on delivery
- The devices are supplied with PoE voltage via the internal voltage supply
- The PoE voltage to the twisted-pair cables is supplied via the wire pairs transmitting the signal (phantom voltage)
- The PoE voltage is decoupled from the power supply
- The individual ports are not electrically insulated from each other
- Ensure that the device does not exceed the specified maximum PoE power output → For the maximum power available to PoE end devices in total, see the technical data

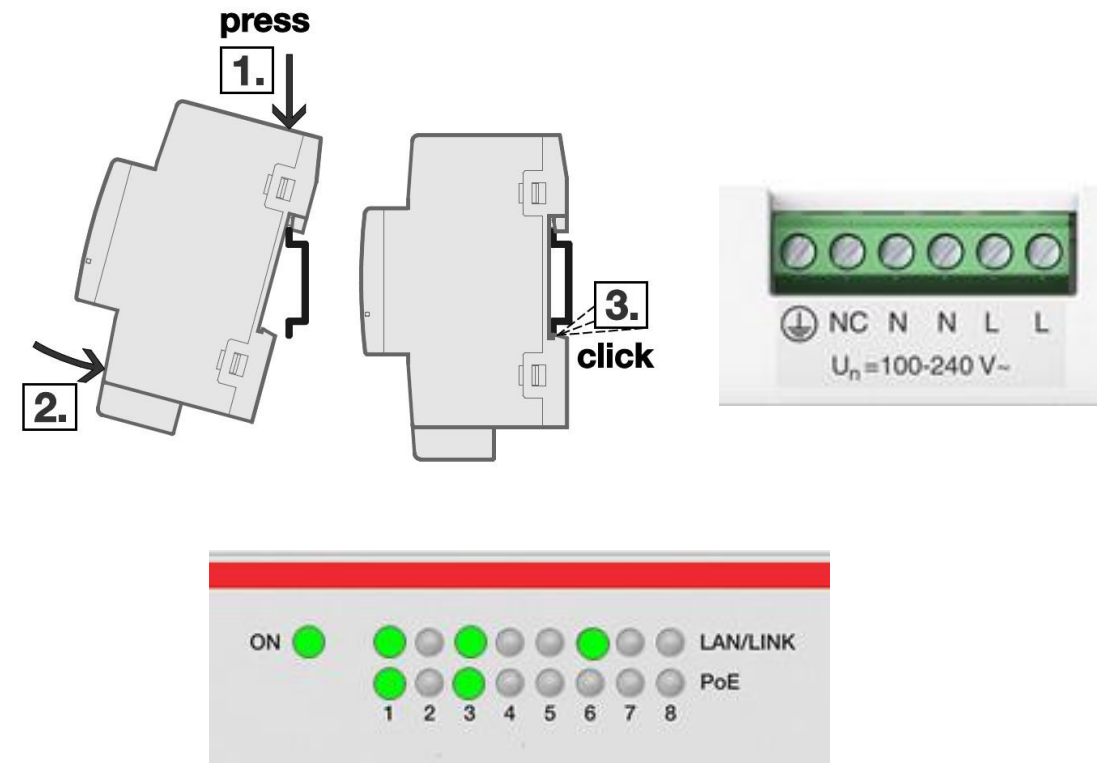


# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### Installation

- On delivery, the device is ready for operation
- Perform the following steps to install the device
  - Install the device onto the DIN rail
  - Ground the device via the 6-pin terminal block
  - Connect the wires according to the pin assignment on the device with the clamps (N: Neutral and L: Line/phase)  
→ By connecting the supply voltage, you start the operation of the device and performs a self-test
  - When the device is ready for operation, the “ON” LED lights up
  - Connect the data cables according to your requirements
  - Operate the device below the specified maximum ambient air temperature exclusively
  - Relieve the connection points of cables and lines from mechanical stress



# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Device features

### Connecting data cables

Note the following general recommendations for data cable connections in environments with high electrical interference levels:

- Keep the length of the data cables as short as possible  
→ Max. 100 m for Cat5e cable
- Use optical data cables for the data transmission between the buildings
- Ensure that the minimum distance of 10 mm between data lines/telecommunication lines and power lines is maintained
- Ideally, install the cables in separate cable ducts
- Verify that power supply cables and data cables do not run parallel over longer distances (inductive coupling)



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# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

Marketing

# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Documentation

- Product Manual
- Installation and Operating Instructions
- Technical Data (.PDF)
  - Dutch (NL)
  - Russian (RU)
  - Polish (PL)
  - Italian (IT)
  - French (FR)
  - Spanish (ES)
  - German (DE)
  - English (EN)



Montage- und Betriebsanleitung  
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Руководство по монтажу и эксплуатации  
安裝和操作手冊

### ISP/S 8.1.1.1

- DE IP-Switch-PoE, 8 Ports, Fast Ethernet, REG
- EN IP Switch PoE, 8 Ports, Fast Ethernet, MDRC
- FR IP Switch PoE, 8 Ports, Fast Ethernet, MRD
- ES IP Switch PoE, 8 Puertos, Fast Ethernet, MDRC
- IT Switch IP PoE, 8 porte, Fast Ethernet, DIN
- NL IP Switch PoE, 8 Ports, Fast Ethernet, DINr
- PL IP Switch PoE, 8 Ports, Fast Ethernet, REG
- RW IPкоммутатор PoE, 8портов, Ethernet, MDRC
- CN IP交换机, 8端口 PoE, 高速以太网, 导轨安装

# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Catalog

- Smarter Solutions for Home and Building Automation  
ABB i-bus KNX – Product Range Overview 2021
  - [→ LINK](#)
- Catalogue – 2021  
Electrical installation solutions for buildings
  - Chapter 8 “Energy Efficiency”
  - Chapter 14 “ABB i-bus® KNX”
  - [→ LINK](#)



**Smarter Solutions for  
Home and Building Automation  
ABB i-bus® KNX  
Product Range Overview 2021**

Product description, quick and easy  
selection of product codes



**Catalogue – 2021  
Electrical installation  
solutions for buildings**



IP Switch, 8 Ports, Fast Ethernet, MDRC  
The IP Switch is an industrial-grade, 8 Ports, Fast Ethernet (100 Mbit/s), unmanaged switch with plug-and-play capabilities, designed for installation in electrical distribution boards and small housings for rapid mounting on 35 mm DIN rails (to EN 60715).

Description	Mod. width	Order details		Price		Weight		Pack unit
		Type code	Order code	€	kg	1 piece	1 piece	
IS/S 8.1.1	8	IS/S 8.1.1	2CDG1008R0001		0.25		1	



IP Switch PoE, 8 Ports, Fast Ethernet, 55W, MDRC  
The IP Switch PoE is an industrial-grade, 8 Ports, Fast Ethernet (100 Mbit/s), PoE (55 W), unmanaged switch with plug-and-play capabilities, designed for installation in electrical distribution boards and small housings for rapid mounting on 35 mm DIN rails (to EN 60715).

Description	Mod. width	Order details		Price		Weight		Pack unit
		Type code	Order code	€	kg	1 piece	1 piece	
ISP/S 8.1.1.1	12	ISP/S 8.1.1.1	2CDG1008R0001		0.41		1	




# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

Microsite with the first main information and links to further related pages → [Link](#)

**ABB** HOME > PRODUCTS > HOME AND BUILDING AUTOMATION > ABB BUS-KNX > SYSTEM INFRASTRUCTURE AND INTERFACING > GLOBAL SITE

## ABB IP switches for DIN-Rail installation


Simplifying IP connectivity inside your cabinet



The ABB IP-Switches, industrial grade, 8 Ports, Fast Ethernet, unmanaged switches (with and without PoE) are designed for installation in electrical distribution boards and can be easily mounted on DIN-Rails. The new ABB IP-Switches are suitable for all applications, segments and markets in which distribution boards with DIN-Rail devices requiring IP connectivity are used.

Are you looking for support or purchase information?  
→ [Contact us](#)


### Main Benefits



**Special Design**

The MDRC device is suitable for installation in standard electrical distribution board. The IP connection ports are secured under the distribution board cover preventing unauthorized access.


- Robust, industrial quality design
- Saves installation time
- Reduced installation space



**Easy Installation**

Plug-and-play, no special commissioning:


- Professional, secure and clean installation
- No special skills to install
- Easy usage




**Compact technology**

The PoE variant provides supply voltage on all its 8 ports without the need of extra external power supply:

- Saves installation space
- Reduces costs



← IP Network →



KNX IP Ecosystem







ABB EQmatic Energy Management



Circuit monitoring systems



IP Door Entry System



Other IP devices

### Product Overview




ABB IP-Switch




ABB IP-Switch PoE

### Learn More

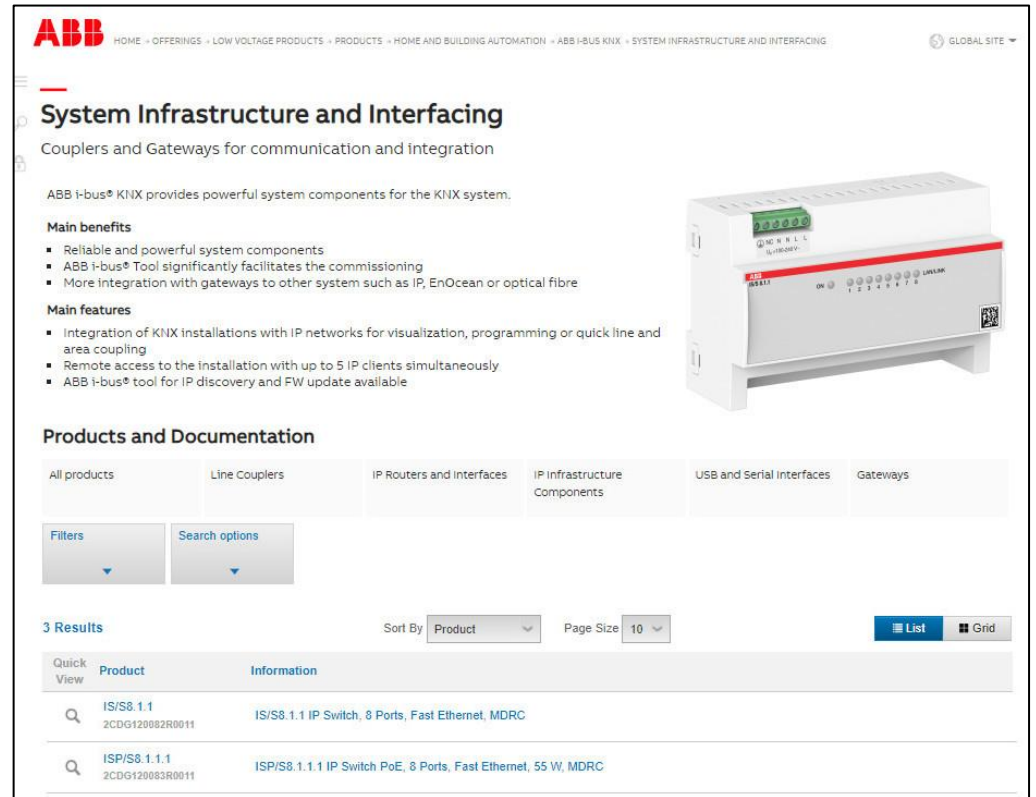
PDF  
Product Presentation  
→ [IP Switches Overview](#)

# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

## Homepage

[www.abb.com/KNX](http://www.abb.com/KNX)

- Products and Downloads
  - System Infrastructure and Interfacing
    - IP Infrastructure Components
- Product Manual
- Technical Data
- Operating instruction
- Engineering Guides
- Installation and Operating Instruction
- Specification Text
- ...



The screenshot shows the ABB website's product page for 'System Infrastructure and Interfacing'. The page features a navigation bar with the ABB logo and a breadcrumb trail: HOME > OFFERINGS > LOW VOLTAGE PRODUCTS > PRODUCTS > HOME AND BUILDING AUTOMATION > ABB I-BUS KNX > SYSTEM INFRASTRUCTURE AND INTERFACING. A 'GLOBAL SITE' dropdown is also present. The main heading is 'System Infrastructure and Interfacing' with the subtitle 'Couplers and Gateways for communication and integration'. Below this, a paragraph states: 'ABB i-bus® KNX provides powerful system components for the KNX system.' The 'Main benefits' section lists: 'Reliable and powerful system components', 'ABB i-bus® Tool significantly facilitates the commissioning', and 'More integration with gateways to other system such as IP, EnOcean or optical fibre'. The 'Main features' section lists: 'Integration of KNX installations with IP networks for visualization, programming or quick line and area coupling', 'Remote access to the installation with up to 5 IP clients simultaneously', and 'ABB i-bus® tool for IP discovery and FW update available'. To the right of the text is a 3D rendering of a white ABB IP switch unit. The 'Products and Documentation' section includes a filter bar with categories: 'All products', 'Line Couplers', 'IP Routers and interfaces', 'IP infrastructure Components', 'USB and Serial interfaces', and 'Gateways'. Below the filter bar are 'Filters' and 'Search options' buttons. The results section shows '3 Results' with a 'Sort By' dropdown set to 'Product' and a 'Page Size' dropdown set to '10'. The results are displayed in a table with columns 'Quick View', 'Product', and 'Information'. The first result is 'IS/S8.1.1' (2CDG120082R0011) described as 'IS/S8.1.1 IP Switch, 8 Ports, Fast Ethernet, MDRC'. The second result is 'ISP/S8.1.1.1' (2CDG120083R0011) described as 'ISP/S8.1.1.1 IP Switch PoE, 8 Ports, Fast Ethernet, 55 W, MDRC'.

ABB HOME > OFFERINGS > LOW VOLTAGE PRODUCTS > PRODUCTS > HOME AND BUILDING AUTOMATION > ABB I-BUS KNX > SYSTEM INFRASTRUCTURE AND INTERFACING GLOBAL SITE

## System Infrastructure and Interfacing

Couplers and Gateways for communication and integration

ABB i-bus® KNX provides powerful system components for the KNX system.

**Main benefits**

- Reliable and powerful system components.
- ABB i-bus® Tool significantly facilitates the commissioning
- More integration with gateways to other system such as IP, EnOcean or optical fibre

**Main features**

- Integration of KNX installations with IP networks for visualization, programming or quick line and area coupling
- Remote access to the installation with up to 5 IP clients simultaneously
- ABB i-bus® tool for IP discovery and FW update available

**Products and Documentation**

All products Line Couplers IP Routers and interfaces IP infrastructure Components USB and Serial interfaces Gateways

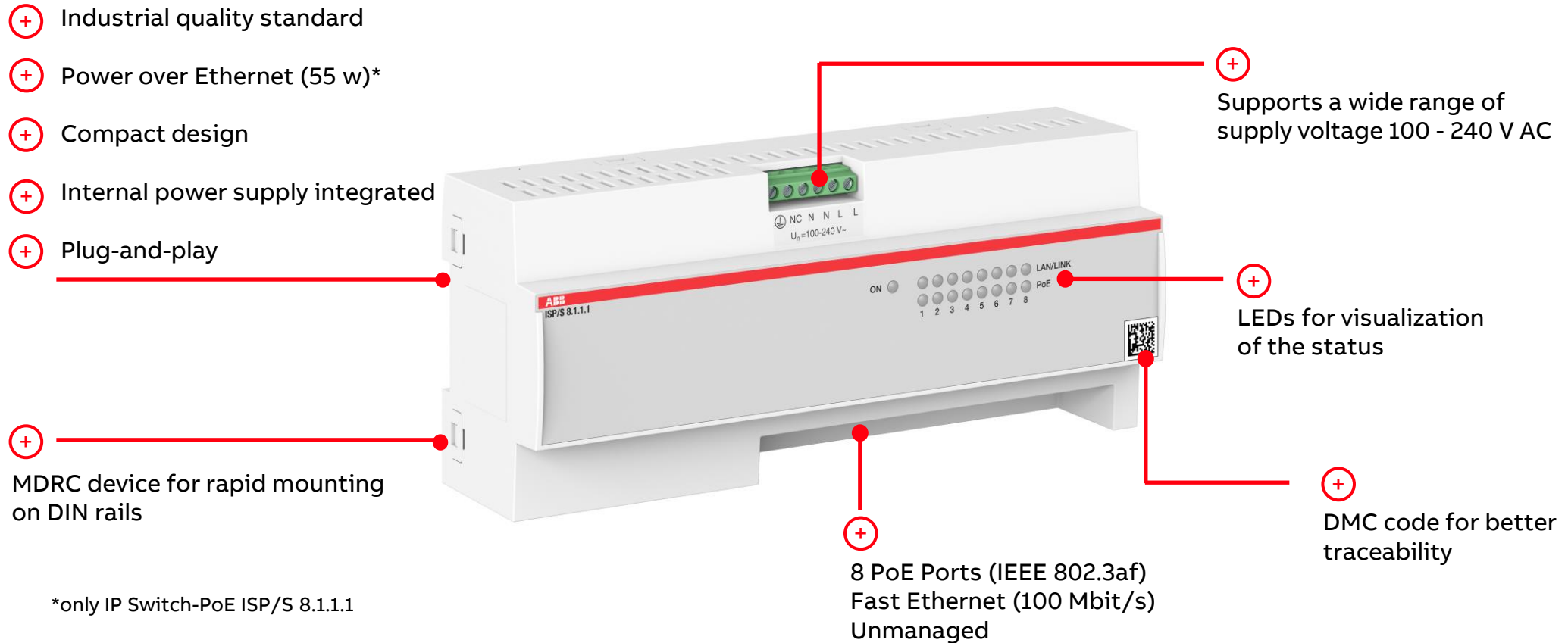
Filters Search options

3 Results Sort By Product Page Size 10 List Grid

Quick View	Product	Information
	IS/S8.1.1 2CDG120082R0011	IS/S8.1.1 IP Switch, 8 Ports, Fast Ethernet, MDRC
	ISP/S8.1.1.1 2CDG120083R0011	ISP/S8.1.1.1 IP Switch PoE, 8 Ports, Fast Ethernet, 55 W, MDRC

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## Summary



# ABB IP Switches IS/S 8.1.1 and ISP/S 8.1.1.1

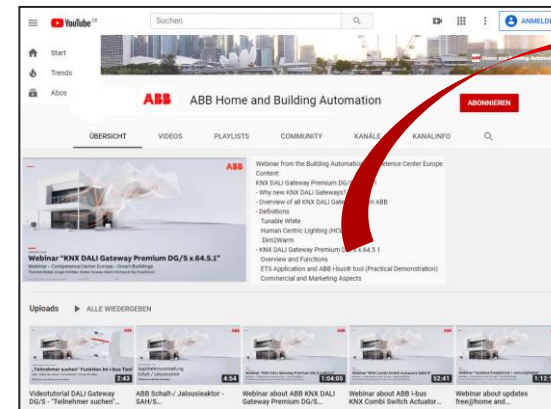
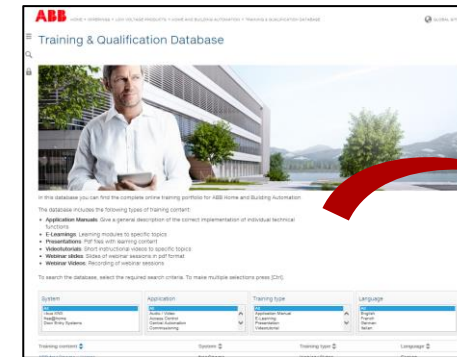
## Training Material

### Training & Qualification Database

- The database contains extensive training content
  - Webinar, Learning Sessions, ... slides and videos
  - Presentations
  - Video tutorials
  - and more ...
  - <https://go.abb/ba-training>
  - [www.abb.com/knx](http://www.abb.com/knx) (→ Services & Tools → Training and Qualification → Training Database)

### YouTube

- Channel “ABB Home and Building Automation”
  - <https://www.youtube.com/user/ABBibusKNX>



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# Disclaimer

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