



## Conductor NT

### Data Sheet

## Highlights

Conductor NT is a Windows® 2000 Human System Interface (HSI) that provides a suite of operator-directed features and functions that are ergonomically designed to facilitate process monitoring, control, fault mitigation, and optimization. Conductor NT supports a wide range of HSI features including but not limited to large display quantities, global alarm silence, dual CRTs, software and hardware alarm display panels, client/server architecture, Active X® display elements, VB Scripting of dynamics, @aGlance/IT™ data access, and scalable bitmap import. Conductor NT supports connectivity with Symphony/Harmony, Symphony/DCI, Freelance 2000™, and OPC server systems.

## Performance Characteristics

| Feature                               | Characteristic/Value                                                                 |
|---------------------------------------|--------------------------------------------------------------------------------------|
| Display system                        |                                                                                      |
| Fixed hierarchy                       | 3 levels: summary, group, and point                                                  |
| Summary displays                      | 1,000 pages of 24 group symbols <sup>1</sup>                                         |
| Group displays                        | 24,000 displays of 4, 6, or 8 faceplates <sup>1</sup>                                |
| Point (tuning) displays               | 192,000 <sup>1,2</sup><br>60,000/console group; 30,000/server <sup>3,4,5</sup>       |
| Custom configured displays            | 10,000/console group <sup>1</sup>                                                    |
| Process windows                       | Up to 4 per display; 120/console group <sup>3,4,5</sup>                              |
| Total windows/display                 | Approximately 20 (application dependent)                                             |
| Trend displays                        | 10,000/console group <sup>1</sup> ; 8 traces/display                                 |
| Mini-alarm window                     | Permanent display: 4 lines: 2 process alarms, 1 system alarm, and 1 operator message |
| Alarm review display                  | 1 group-wide                                                                         |
| Event review display                  | 1 group-wide                                                                         |
| System status display                 | 1 fixed and multiconfigurable                                                        |
| Performance                           |                                                                                      |
| Display callup                        | Less than 2 seconds typical                                                          |
| Tuning display updates                | 1 second                                                                             |
| DDE/OLE server data transmission rate | Up to 500 values/second                                                              |



| Feature                             | Characteristic/Value                                                                                                                                              |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacities                          |                                                                                                                                                                   |
| Real-time tags                      | No limit: any tag available on the Cnet <sup>2</sup>                                                                                                              |
| Real-time tags per server           | Selectable: 500, 2500, 10000 and 30000 <sup>3,4</sup>                                                                                                             |
| Alarms and events                   | No limit: all active and unacknowledged alarms and events are displayed                                                                                           |
| Event Historian                     | 10,000 events in circular buffer                                                                                                                                  |
| Trends                              | 8,000/console group (2,000/server)                                                                                                                                |
| Summary logs                        | Excel spreadsheets, standard logs, limited by memory only                                                                                                         |
| Process areas                       | Up to 255                                                                                                                                                         |
| Alarm priorities                    | Up to 16                                                                                                                                                          |
| CRT context keys                    | 16/operator (1 for logon)                                                                                                                                         |
| QuickKeys                           | Up to 64/operator                                                                                                                                                 |
| ADP (hardware support/software)     | Up to 4 - 64 (32 unshifted and 32 shifted) key panels per station                                                                                                 |
| Security                            | 9 levels, hierarchical; 60+ permits                                                                                                                               |
| Architecture                        |                                                                                                                                                                   |
| Structure                           | Client/server                                                                                                                                                     |
| System display nodes                | Up to 50 display nodes total (Cnet + Onet) <sup>2,4,5</sup>                                                                                                       |
| Cnet                                | Up to 50 console groups                                                                                                                                           |
| Console group                       | Up to 10 servers <sup>2,4,5</sup><br>Up to 8 nodes (max. 4 servers), client extenders <sup>3</sup>                                                                |
| Server support                      | Up to 10 clients <sup>2,4,5</sup><br>Max. 30 clients/group <sup>3</sup>                                                                                           |
| Open data connection                | DDE, OLE up to 10 simultaneous clients                                                                                                                            |
| Third-party controller connectivity | OPC standard client interface (optional)<br>Tested with Factory Soft Modicon and Rockwell Automation RSLinx<br>OPC servers. Supports OPC Data Access version 1.0. |
| OPC scanner capacity                | 500, 1500, 3000 tag names                                                                                                                                         |
| Onet connection                     | IEEE 802.3 Ethernet™, TCP/IP protocol                                                                                                                             |
| Cnet connection                     | IEEE 802.3 Ethernet, TCP/IP protocol <sup>2,4,5</sup><br>Infinet, plant loop and Cnet <sup>3,6</sup>                                                              |
| Graphics system                     | SL Graphics Modeling System (SL-GMS)                                                                                                                              |

**Note:**

1. Approximate: 9,999 custom configured displays, 9,999 trend displays, 999 summary displays, 23,976 group displays, and 191,808 point displays.
2. Pertains specifically to Symphony/DCI systems.
3. Pertains specifically to Symphony/Harmony systems.
4. Pertains specifically to Freelance 2000 systems.
5. Pertains specifically to OPC systems.
6. Plant loop support via PCI2 only.

## Recommended Hardware Configuration

| Characteristics         | Server                                                                                                                                                       | Client                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory required         | 128 Mb EDO or faster RAM                                                                                                                                     | 96 Mb EDO or faster RAM                                                                                                                                     |
| Platform                | Intel® Pentium® class PC registered compatible with Windows 2000                                                                                             | Intel Pentium class PC registered compatible with Windows 2000                                                                                              |
| Processor speed         | 200 MHz (min.)                                                                                                                                               | 200 MHz (min.)                                                                                                                                              |
| Hard disk space         | 2.1 Gb (min.)                                                                                                                                                | 1.2 Gb (min.)                                                                                                                                               |
| Network connector       | Ethernet IEEE 802.3 compliant (TCP/IP); thin-wire 10Base2 preferred, 10BaseT acceptable                                                                      | Ethernet IEEE 802.3 compliant (TCP/IP); thin-wire 10Base2 preferred, 10BaseT acceptable                                                                     |
| CD-ROM reader           | 2X (min.)                                                                                                                                                    | 2X (min.)                                                                                                                                                   |
| Video adapter           | 2 Mb (min.) resolution: 1280x1024 preferred, 1024x768 (min.)                                                                                                 | 2 Mb (min.) resolution: 1280x1024 preferred 1024x768 (min.)                                                                                                 |
| Ports                   | 2 serial, 1 parallel                                                                                                                                         | 2 serial, 1 parallel                                                                                                                                        |
| Mouse                   | 2-button bus mouse; 3-button preferred                                                                                                                       | 2-button bus mouse; 3-button preferred                                                                                                                      |
| Floppy disk drive       | 3.5 in., 1.44 Mb                                                                                                                                             | 3.5 in., 1.44 Mb                                                                                                                                            |
| Options and accessories |                                                                                                                                                              |                                                                                                                                                             |
| Archival device         | DAT drive<br>QIC tape drive                                                                                                                                  | Archival not applicable<br>Archival not applicable                                                                                                          |
| Dual monitor            | Appian Gemini PCI Video Card and software                                                                                                                    | Appian Gemini PCI Video Card and software                                                                                                                   |
| Printers                | Color laser printer Xerox® Phaser 750N<br>Color inkjet printer Xerox DocuPrint NC20<br>Color dot matrix, wide carriage, event line printer AMT 5350 and 6350 | Color laser printer Xerox Phaser 750N<br>Color inkjet printer Xerox DocuPrint NC20<br>Color dot matrix, wide carriage, event line printer AMT 5350 and 6350 |

## Ancillary Equipment

- QWERTY keyboard with 3 alarm indicators and 2 tones (177A550U01).
- ECCP redundant Ethernet interface (686B811U01) for Symphony/DCI.
- QWERTY Mylar keyboard with NEMA4 trackball with 3 alarm indicators and 2 tones (177A549U01).
- Signature desktop workstation.
- Version 5.0 CD-ROM (1900633A1).
- Logon - logout badge reader (178B026U01) and badges (699B484U01).

## Supported Software

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Conductor NT Version 5.0 supports:

- Symphony DCI with software at release level SR 5.0 (Conductor NT, Harmony DCU, DCU2000G, and Composer CTK). Runs on Windows 2000 with SP2.
- Symphony Harmony with INICI03, INICI12, Harmony Network Coupler A1.0, or INIPCI02, and Composer for Harmony version 3.0 and 3.1. Runs on Windows 2000 with SP2.
- Freelance 2000 Version 6.2. Runs on Windows 2000 with SP2.

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Automation Technology Products  
Wickliffe, Ohio, USA  
[www.abb.com/processautomation](http://www.abb.com/processautomation)  
email: [industrialitsolutions@us.abb.com](mailto:industrialitsolutions@us.abb.com)

Automation Technology Products  
Västerås, Sweden  
[www.abb.com/processautomation](http://www.abb.com/processautomation)  
email: [processautomation@se.abb.com](mailto:processautomation@se.abb.com)

Automation Technology Products  
Mannheim, Germany  
[www.abb.de/processautomation](http://www.abb.de/processautomation)  
email: [marketing.control-products@de.abb.com](mailto:marketing.control-products@de.abb.com)