The Conettix DX4020 Ethernet Network Interface Module creates two-way communications over Ethernet networks for compatible control panels. Typical uses include:

- Reporting to the Conettix D6600 Communications Receiver/Gateway
- Remote administration with Remote Programming Software (RPS) or RPS-Lite
- Connecting to a PC for programming with PC9000 Software or Building Integration System (BIS) Security Engine

**System overview**

1. Compatible Control Panel
2. Compatible Control Panel Option Bus or SDI Bus Connection
3. Conettix DX4020 Ethernet Network Interface Module
4. Ethernet Network Connection to DX4020
5. Host PC running Conettix D6200 Programming/Administration Software
6. Ethernet Network Connection to Host PC Ethernet Network Interface Card (NIC)
7. Ethernet Network, Local Area Network (LAN), Metropolitan Area Network (MAN), Wide Area Network (WAN), or Internet
8. Ethernet Network Connection to Conettix D6682 Ethernet Network Adapter
9. Conettix D6682 Ethernet Network Adapter
10. Conettix D6682 Ethernet Network Adapter Connection to Conettix D6600 Communications Receiver/Gateway COM4 Port
11. Conettix D6600 Communications Receiver/Gateway

- Built-in IP-based alarm transport, programming, and control
- 10BASE-T or 100BASE-T network connection
- Full-duplex and half-duplex support
- Three-hole mounting pattern
- Support for dynamic or static IP addresses
The system overview diagram shows a system using a compatible control panel, Conettix DX4020 Ethernet Network Interface Module, Conettix D6600 Communications Receiver/Gateway, and a Conettix D6682 Ethernet Network Adapter.

### Functions

<table>
<thead>
<tr>
<th>LEDs</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Red LEDs</strong></td>
<td></td>
</tr>
<tr>
<td>BUS-RCV</td>
<td>Data bus receives data from control panel</td>
</tr>
<tr>
<td>BUS-XMIT</td>
<td>Data bus transmits data to control panel</td>
</tr>
<tr>
<td><strong>Green LEDs</strong></td>
<td></td>
</tr>
<tr>
<td>SER-RX</td>
<td>RS-232 receives data from serial device</td>
</tr>
<tr>
<td>SER-TX</td>
<td>RS-232 transmits data to serial device</td>
</tr>
</tbody>
</table>

Four LEDs provide information about the transmission and receipt of data. There are also two network diagnostic LEDs that provide information about the network connection. Refer to the DX4020 Installation Guide (P/N 49522) for details about the network diagnostic LED functions.

### DIP Switches

Use the DIP switches to easily assign a bus address to the DX4020.

### Programmable IP Address

Use ARP and Telnet commands from any PC to program the DX4020 IP address. The IP address can be dynamic using DHCP or the IP address can be static.

### Certifications and approvals

This product is designed to also comply with the requirements of:

- France: AFNOR, NF, A2P Type 2 (122000076-05)

**Notice**

FM Approval applies when the DX4020 is used with the Conettix D6600 Communications Receiver/Gateway.

<table>
<thead>
<tr>
<th>Region</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>RCM</td>
</tr>
<tr>
<td>Europe</td>
<td>CE</td>
</tr>
<tr>
<td></td>
<td>2004/108/EC EMC Directive (EMC); 2006/95/EC Low-Voltage Directive (LVD)</td>
</tr>
<tr>
<td>Belgium</td>
<td>INCERT</td>
</tr>
<tr>
<td></td>
<td>B-509-0005</td>
</tr>
<tr>
<td>USA</td>
<td>UL</td>
</tr>
<tr>
<td></td>
<td>AMCX: Central Station Alarm Units (UL1610, UL1635), AMCX7: Central Station Alarm Units Certified for Canada (cULUs), APAW: Police Station Alarm Units (UL365, UL464), APAW7: Police Station Alarm Units Certified for Canada (cULUs), APOU: Proprietary Alarm Units (UL1076), APOU7: Proprietary Alarm Units Certified for Canada (cULUs), NBSX7: Household Burglar Alarm System Units Certified for Canada (cULUs), UT0UT: Control Units and Accessories - House system Type Certified for Canada (cULUs)</td>
</tr>
</tbody>
</table>

### Installation/configuration notes

**Compatibility information**

<table>
<thead>
<tr>
<th>Applications</th>
<th>Supported on all compatible control panels.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPS:</td>
<td></td>
</tr>
<tr>
<td>PC9000:</td>
<td>Supported on the following control panels:</td>
</tr>
<tr>
<td>Building Integration System (BIS) Security Engine:</td>
<td>Supported on the following SDI bus control panels (version 6.3 and higher): All G Series control panels</td>
</tr>
<tr>
<td>CMS 7000:</td>
<td>Supported on DS74006C-HI Control Panels (option bus) set at Mode 18 (version 4.10 or higher).</td>
</tr>
</tbody>
</table>

**SDI Bus Control Panels (version 6.3 or higher)**

- All G Series control panels
- D9412, D7412, and D7212
- D9112
Option Bus Control Panels

- DS7400Xi (version 4.10 or higher)
- CC7420-A
- DS7220 and DS7240 (version 2.10 or higher)
- FPD-7024

Connection Considerations
The DX4020 uses a standard Category 3 or Category 5 cable with an RJ-45 plug to connect to the network, a two-wire connection from the control panel bus, and two wires that connect to the control panel or a power supply for DC power. For 10BASE-T, use Category 3 or better. For 100BASE-T, use Category 5 or better.

Mounting Considerations
The DX4020 mounts to the standard three-hole patterns in supported control panel enclosures. With the D137 mounting bracket, the DX4020 mounts to other enclosures.

Parts included

<table>
<thead>
<tr>
<th>Quant.</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ethernet network interface module</td>
</tr>
<tr>
<td>1</td>
<td>Cable assembly, quick connect</td>
</tr>
<tr>
<td>1</td>
<td>Hardware pack</td>
</tr>
<tr>
<td>1</td>
<td>Literature - Installation Guide</td>
</tr>
</tbody>
</table>

Technical specifications

Environmental Considerations

| Dimensions | 7.6 cm x 12.7 cm (3 in. x 5 in.) |
| Operating Temperature | 0°C to +50°C (+32°F to +122°F) |
| Relative Humidity     | 5% to 85% at 30°C (86°F) non-condensing |

Power Requirements

| Current | 10Base-T: 110 mA maximum |
|         | 100Base-T: 135 mA maximum |
| Voltage (Operating) | 12 VDC nominal |

Ordering information

Conettix DX4020 Ethernet Network Interface Module
Creates two-way communications over Ethernet networks for compatible control panels.
Order number DX4020

Accessories

AE1 Standard Enclosure (Gray)
Standard gray enclosure with keyed lock. Measures 35.6 cm x 31.8 cm x 7.6 cm (14 in x 12.5 in x 3 in).
Order number AE1

AE2 Standard Enclosure (Red)
Standard red enclosure with keyed lock. Measures 35.6 cm x 31.8 cm x 7.6 cm (14 in x 12.5 in x 3 in).
Order number AE2

AE4 Large Enclosure (Red)
Large red enclosure with keyed lock. Measures 52.7 cm x 38.1 cm x 10.8 cm (20.7 in x 15 in x 4.25 in).
Order number AE4

D2203 Enclosure
Gray steel enclosure. Accepts an optional lock and tamper switch. Measures 35.6 cm x 31.8 cm x 7.6 cm (14 in x 12.5 in x 3 in).
Order number D2203

D8103 Enclosure
Grey steel enclosure measuring 41 cm x 41 cm x 9 cm (16 in x 16 in x 3.5 in).
Order number D8103

D8109 Fire Enclosure
Red steel enclosure measuring 40.6 cm x 40.6 cm x 8.9 cm (16 in x 16 in x 3.5 in). UL Listed. Includes a lock and key set.
Order number D8109
Conetix DX4020 Ethernet Network Interface Module

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