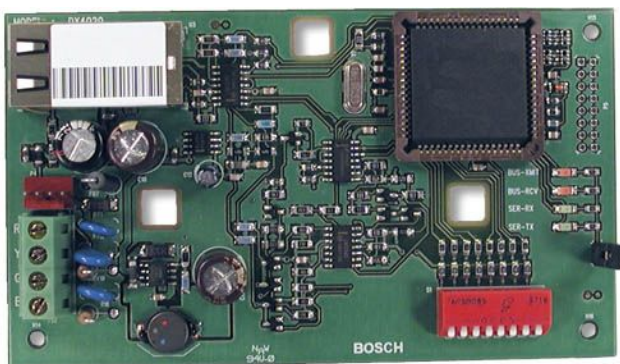**BOSCH**
Invented for life

Conettix DX4020 Ethernet Network Interface Module
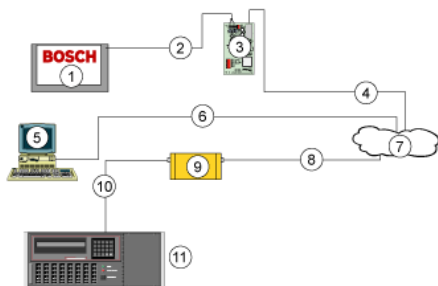

▸ **Built-in IP-based alarm transport, programming, and control**

▸ **10BASE-T or 100BASE-T network connection**

▸ **Full-duplex and half-duplex support**

▸ **Three-hole mounting pattern**

▸ **Support for dynamic or static IP addresses**

▸ **DIP switches for option bus or SDI bus address programming**

▸ **Light emitting diodes (LEDs) provide control panel status**

▸ **Supports 128-bit AES Rijndael encryption**

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 D6680 Ethernet Network Adapter
9. Conettix D6680 Ethernet Network Adapter
10. Conettix D6680 Ethernet Network Adapter Connection to Conettix D6600 Communications Receiver/Gateway COM4 Port
11. Conettix D6600 Communications Receiver/Gateway

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 D6680 Ethernet Network Adapter.

Functions

LEDs

Red LEDs	Function
BUS-RCV	Data bus receives data from control panel
BUS-XMIT	Data bus transmits data to control panel

Red LEDs	Function
Green LEDs	Function
SER-RX	RS-232 receives data from serial device
SER-TX	RS-232 transmits data to serial device

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

UL Standards

UL294, Access Control Systems Units

UL864, UL Commercial Fire Alarm signaling

UL365, Police Station Burglar Alarm Units and Systems

UL609, Local Burglar Alarm Units and Systems

UL985, Household Fire Warning System Units

UL1023, Household Burglar-alarm System Units

UL1076, Proprietary Burglar Alarm Units and Systems

UL1610, Central Station Burglary, Line Security (Grade AA)

ULC Standards

CAN/ULC-S303-M91, Local Burglar Alarm Units and Systems

CAN/ULC-S304-M88, Central and Monitoring Station Burglar Alarm Units

CAN/ULC-S545, Residential Fire Warning System Control Units

ULC/ORD-C1076-M1986, Proprietary Burglar Alarm Units and Systems Communicator

ULC-C1023-1974, Household Burglar Alarm Systems

Approvals

Approvals	CE
	CSFM
	NF A2P Type 2 Certification number: 122000076-05
	FM[1]

1 - When used with the Conettix D6600 Communications Receiver/Gateway.

Installation/Configuration Notes

Compatibility information

Applications

RPS:	Supported on all compatible control panels.
PC9000:	Supported on the following control panels: D9412G, D7412G, D7212G, D9112, D7412, and D7212.
Building Integration System (BIS) Security Engine:	Supported on the following SDI bus control panels (version 6.3 and higher): D9412GV2, D7412GV2, D7212GV2, D9412G, D7412G, and D7212G.
CMS 7000:	Supported on DS7400Xi-CHI Control Panels (option bus) set at Mode 18 (version 4.10 or higher).

SDI Bus Control Panels (version 6.0 or higher)

- D9412GV2, D7412GV2, and D7212GV2
- D9412G, D7412G, and D7212G
- 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)

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.

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 DX4020
Creates two-way communications over Ethernet networks for compatible control panels.

Accessories

AE1 Standard Enclosure (Gray) AE1
Standard gray enclosure made of 1.0 mm cold-rolled steel. Includes a keyed lock. The dimensions are 35.6 cm x 31.8 cm x 7.6 cm (14 in. x 12.5 in. x 3 in.).

AE2 Standard Enclosure (Red) AE2
Standard red enclosure made of 1.0 mm cold-rolled steel. Includes a keyed lock. Measures 35.6 cm x 31.8 cm x 7.6 cm (14 in. x 12.5 in. x 3 in.).

AE4 Large Enclosure (Red) AE4
Large red enclosure made of 1.2 mm cold-rolled steel. Includes a keyed lock. Measures 52.7 cm x 38.1 cm x 10.8 cm (20.7 in. x 15 in. x 4.25 in.).

D2203 Enclosure D2203
Grey steel enclosure measuring 37 cm x 34 cm x 8.9 cm (14.6 in. x 13.4 in. x 3.5 in.). Includes a lock and accepts an optional tamper switch.

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

D8109 Fire Enclosure D8109
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.