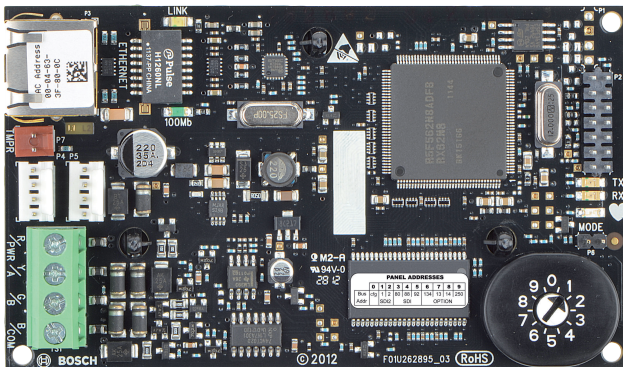


B426 Ethernet Communication Module

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Conettix Ethernet Communication Module - B426

- ▶ Full two-way IP event reporting with remote control panel programming support
- ▶ 10/100 Base-T Ethernet communication for IPv6 and IPv4 networks
- ▶ NIST-FIPS197 Certified for 128-bit to 256-bit AES Encrypted Line Security
- ▶ Plug and Play installation, including UPnP service to enable remote programming behind firewalls
- ▶ Advanced configuration by browser or RPS with compatible Bosch control panels

The B426 Conettix Ethernet Communication Module is a four-wire powered SDI, SDI2, or Option bus device that provides two-way communication with compatible control panels over IPv4 or IPv6 Ethernet networks.

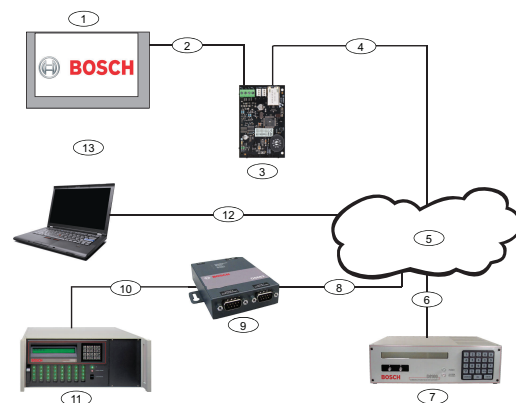
Typical applications include:

- Reporting and path supervision to a Conettix Communications Receiver/Gateway.
- Remote administration and control with Remote Programming Software (RPS) or our Remote Security Control application for handheld devices.
- Connection to building automation and integration applications.

The B426 is built for a wide variety of secure commercial and industrial applications. Flexible end-to-end path supervision, AES encryption, and anti-substitution features make B426 desirable for high security and fire monitoring applications. It is capable as a stand-alone path or it can be used in conjunction with another communication technology. For Fire Monitoring applications, the B426 meets UL864 and NFPA72 standards for Single Communication Technology with approved Bosch control panels.

System overview

Use the B426 Conettix Ethernet Communication Module for bi-directional communication over an Ethernet network.



B426 system connections overview

Description — Callout

- 1 — Compatible Bosch control panel
- 2 — Data bus connection between the control panel and the modules
- 3 — B426 Conettix Ethernet Communication Module

- 4 — Ethernet connection between module and Ethernet network
- 5 — Ethernet network, Local Area Network (LAN), Metropolitan AreaNetwork (MAN), Wide Area Network (WAN), or Internet
- 6 — Ethernet network connection to the Conetnix D6100i Communications Receiver/Gateway (D6100i/D6100IPv6)
- 7 — Conetnix D6100i Communications Receiver/Gateway
- 8 — Ethernet network connection to the Ethernet adapter (D6680/ITS-D6682/ITS-D6686) (ITS-D6682 shown) Ethernet Network Adapter
- 9 — Conetnix (ITS-D6682 shown) Ethernet Network Adapter
- 10 — Connection from ITS-D6682 to the COM4 Port on the Conetnix D6600 Communications Receiver/Gateway
- 11 — Conetnix D6600 Communications Receiver/Gateway
- 12 — Ethernet network connection between the host computer Ethernet network interface card (NIC) and the Ethernet network
- 13 — Host PC running Remote Programming Software, Automation, or the Conetnix D6200 Programming/Administration Software

Functions

Conetnix IP communication

The B426 uses Conetnix IP protocol which supports:

- Full event code reporting and administration
- Flexible supervision intervals
- Resistance to Denial of Service attacks
- 128, 192 or 256-bit AES encryption
- Anti-replay and anti-substitution

Switch addressing

Use the address switch to easily assign a bus address or setup for web configuration.

IP network support

Supports DHCP, UPnP, and Auto IP addressing by default, but can also be configured for Static IP networks. The B426 Conetnix Ethernet Communication Module is compatible with IPv6 or IPv4 networks. With compatible control panels, it supports reporting to receivers with Domain Name System (DNS) hostnames for automatic disaster recovery.

Easy configuration

For most installations, the default B426 settings allow installation with no computer required. An address switch allows easy bus address selection. Universal Plug and Play (UPnP) supports automatic UDP port mapping for remote programming systems when behind a firewall, as well as HTTP port mapping for B426 web configuration. Auto IP enables a direct PC connection without changing any PC network settings. For customized network settings, the B426 supports a full web configuration menu. B Series and GV4 Series control panels support keypad and RPS programming of B426 settings.

LEDs

Three LEDs provide status and troubleshooting information about the module and its connection.

LED	Description
Heartbeat	Indicates the system status of the B426 and its connection to the panel.
RX	Indicates when an inbound packet is received on the bus.
TX	Indicates when an outbound packet is transmitted on the bus.

Certifications and approvals

Region	Certification
US	UL 365 - Police Station Connected Burglar Alarm Units and Systems
	UL 609 - Local Burglar Alarm Units and Systems
	UL 864 - Control Units and Accessories for Fire Alarm Systems (Including NFPA 72)
	UL 985 - Household Fire Warning System Units
	UL 1023 - Household Burglar Alarm System Units
	UL 1076 - Proprietary Burglar Alarm Units and Systems
Canada	UL 1610 - Central Station Burglar Alarm Units
	FCC Part 15 Class B, NIST FIPS-197 AES Certification (IP Communications)
	CAN/ULC S303 - Local Burglar Alarm Units and Systems
	CAN/ULC S304 - Signal Receiving Centre and Premise Alarm Control Units
	ULC-ORD C1023 - Household Burglar Alarm System Units
EU	ULC-ORD C1076 - Proprietary Burglar Alarm Units and Systems
	ICES-003 - Digital Apparatus
	EN 50130-4, EN 61000-6-3, EN 60950

Region	Certification
USA	CSFM 7167-1615:0247 7167 -- CONTROL UNIT (HOUSEHOLD)
	CSFM 7300-1615:0232 7300 -- FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES

Installation/configuration notes

Compatibility information

Control panels	B Series
	GV4 Series
	GV3 Series
	GV2 Series
	G Series Version 6.3 or higher

	D9412
	D7412
	D7212
	D9112
	DS7220 Version 2.10 or higher*
	DS7240 Version 2.10 or higher*
	Easy Series V3+*
	DS7400XiV4 Version 4.10 or higher*
	FPD-7024
	AMAX 2000*

*Not investigated by UL.

Applications

RPS/RPS Lite:	Supported on all compatible control panels .
PC9000:	Supported on D9412, D7412, D7212, G Series, GV2 Series and GV3 Series (version 8.05 only).
Remote Security Control	Supported on all B Series and GV4 Series.
IS2000:	Supported on G Series, GV2 Series and GV3 Series (version 8.05 only).

Mounting considerations

Mount the B426 into the enclosure's 3-hole mounting pattern using the supplied mounting screws and mounting bracket.

Wiring considerations

The B426 connects to a control panel using a data bus connection and to an Ethernet network using a standard Category 5 or above Ethernet cable with an RJ-45 plug.

Parts included

Quantity	Component
1	B426 Conettix Ethernet Communication Module
1	Hardware pack
1	Interconnect cable wiring
1	Quick Start Guide (hardcopy)
1	Literature (mini-CD)

Technical specifications

Environmental considerations

Relative humidity:	Up to 93% non-condensing
Temperature (operating):	0° - +49°C (+32° - +120°F)

Properties

Board dimensions:	59.5 mm x 108 mm x 16 mm (2.19 in x 4.25 in x 0.629 in)
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Power requirements

Current:	10Base-T Ethernet: 100 mA max 100Base-T Ethernet: 90 mA max
Voltage:	12 VDC nominal

Connectors

LAN/WAN:	RJ-45 modular port (Ethernet)
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Cabling

Ethernet cable:	Category 5 or better unshielded twisted pair
Ethernet cable length:	100 m (328 ft) max length

Wiring

Data bus wire gauge:	18 AWG or 22 AWG
Data bus wire length:	Maximum distance – Wire size : 150 m (500 ft) - 0.65 mm (22 AWG) 300 m (1000 ft) - 1.02 mm (18 AWG)

Browser support

Internet Explorer 6 or higher, Mozilla Firefox 3 or higher.

Ordering information

B426 Ethernet Communication Module

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

Order number **B426**

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