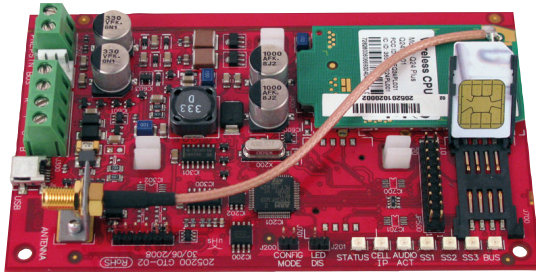




ITS-DX4020-G GPRS/GSM Communicator



- ▶ **Secure IP communication from compatible Bosch panels to Bosch receivers**
- ▶ **Remote programming of IP compatible Bosch panels**
- ▶ **GSM reporting from Contact ID control panels to any PSTN receiver**
- ▶ **Easy provisioning using SMS (text) or USB**
- ▶ **Easy installation, troubleshooting, and maintenance**

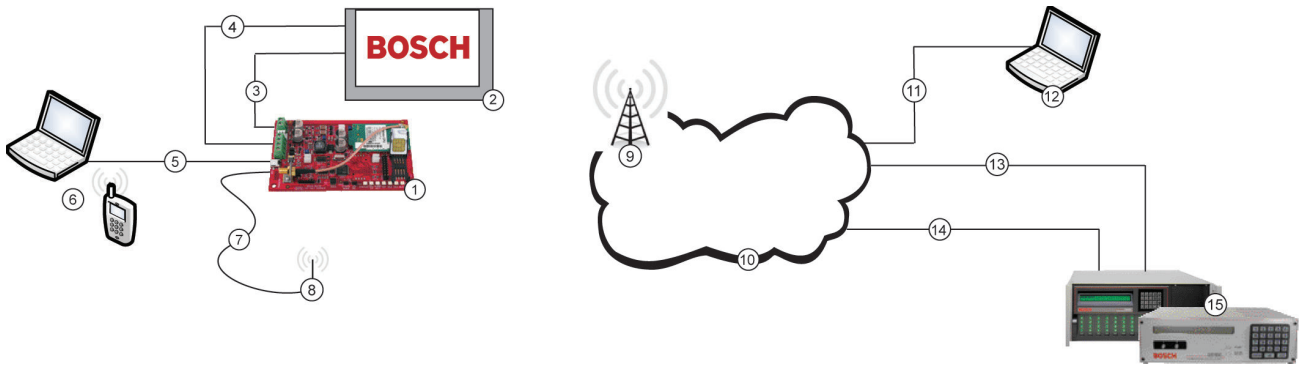
The ITS-DX4020-G enables two-way IP or dialed communications over a commercial GPRS/GSM network. Typical applications are event reporting to a central monitoring station and remote access to Bosch intrusion control panels.

As with all Conettix products, the ITS-DX4020-G supports secure, supervised IP communication. The ITS-DX4020-G can be integrated with a Bosch panel to establish a cellular IP connection to Conettix central station equipment. The ITS-DX4020-G's flexible polling makes it capable as a supervised primary path for customers transitioning away from conventional phone service or as a wireless backup path.

For installations using a PSTN receiver, the ITS-DX4020-G can be wired to the control panel's phone output and send Contact ID alarms over the GSM voice channel.

Note: GPRS capability requires an appropriate data plan from a cellular provider.

System Overview



1. ITS-DX4020-G GPRS/GSM Communicator
2. Compatible Control Panel
3. Control Panel Dialer Connection (optional)
4. Control Panel Bus and Power Connection
5. USB Type A (host)-to-USB Mini B (device) Cable (not included)
6. Local PC or SMS-capable Cell Phone for Configuration
7. Antenna Cable
8. Magnetic Base Antenna
9. Base Station on Wireless Carrier's Network
10. Internet, WAN, Ethernet, or PSTN network
11. Remote PC's Network Connection
12. Remote PC Running Remote Programming Software (RPS)
13. Ethernet Connection
14. PSTN Connection
15. Conettix D6600 or Conettix D6100i Receiver

Easy provisioning via SMS (text) or USB

The ITS-DX4020-G can be provisioned over USB with on-screen menu. For installers without a PC, the ITS-DX4020-G also supports provisioning via SMS messaging.

Easy installation, troubleshooting and maintenance

- No networking expertise required at field site (no firewall or router settings)
- Firmware upgradeable
- No PC or special tools required for installation and troubleshooting

LED	Function
Status	System Status Indicator
Cell IP	Network Connection Status
Audio	Call Status
SS1-SS3	GSM Signal Strength
Bus	Panel Bus Connection Status

Functions

Conettix IP communication via GPRS

In addition to the GPRS security provided by the network operator, the ITS-DX4020-G uses our Conettix IP protocol that supports:

- Flexible polling intervals
- Resistance to Denial of Service attacks
- 128 bit AES encryption
- Anti-replay / anti-substitution keys

Contact ID Alarm dialing via GSM

The ITS-DX4020-G supplies a PSTN line connection with phone voltage to the panel. The PSTN over GSM connection can be used to send primary or backup events using Contact ID. The ITS-DX4020-G provides a dial tone, captures the dialed number, and establishes the GSM call to a PSTN receiver in the monitoring station.

Remote programming of Bosch panels

The ITS-DX4020-G supports secure RPS programming of compatible Bosch panels. It also supports incoming voice menu calls for Easy Series panels.

Certifications and Approvals

Region	Certification	
Europe	CE	(LVD, EMC, R&TTE)
Global	PTCRB	Request #19428
Belgium	INCERT	B-509-0005

Region	Certification		
USA	UL	AMCX: Central Station Alarm Units (ANSI/UL 1610), AOTX: Local Alarm Units (ANSI/UL 609, ANSI/UL 464), APAW: Police-station-connected Alarm Units (ANSI/UL 365, ANSI/UL 464), APOU: Proprietary Alarm Units (ANSI/UL 1076), NBSX: Household Burglar Alarm System Units (ANSI/UL 1641), UOJZ: Control Units, System (ANSI/UL 864)	
		CSFM	7165-1615: 0238 FIRE ALARM CONTROL UNIT (COMMERCIAL)
			7167-1615: 0239 CONTROL UNIT (HOUSEHOLD)
	FCC	7300-1615: 0240 MISC. DEVICE/CONTROL UNIT ACCESSORIES	
		CFR47 Parts 15.107 and 15.109 Class B	
FDNY-CoA	6059		
	AT&T	Notice of Network Compatibility; August 9, 2010	
Australia	Austel	Approved	
Norway	FGI	T-127/09, ATS4, grade 3	
Note	For declarations refer to the Bosch website.		

Installation/Configuration Notes

Compatibility Information

Control Panels:	DS7200V2 Series ¹ (firmware version 2.10 or later)
	DS7400XiV4 ² (firmware version 4.10 or later)
	FPD-7024 Fire Alarm Control Panel
	Easy Series (firmware version 3.0 or later)
	GV2 Series ³ (firmware version 7.07 or later)
	GV3 Series ³
Applications:	RPS v5.10 or higher

¹ Refer to your control panel's documentation for programming instructions.

² Refer to the *DS7400XiV4 Reference Guide* (P/N: 4998154963) and *DS7400XiV4 Release Notes* (P/N: 4998154793) for programming instructions.

³ The GV2 Series consists of the D9412GV2, D7412GV2, and D7212GV2 control panels. The GV3 Series consists of the D9412GV3, D7412GV3, and D7212GV3 control panel. Refer to your control panel's documentation for programming instructions.

Note Use the DX4020 network programming instructions for programming the ITS-DX4020-G.

Connection Considerations

The ITS-DX4020-G uses a four-wire connection to the control panel bus with two data wires and two power wires that connect to the control panel. For GSM dialing, it connects using two wires to the control panel's PSTN output. For proper operation, the ITS-DX4020-G requires a metallic surface mounting location with a high quality signal from the desired wireless carrier.

Mounting Considerations

The ITS-DX4020-G mounts to the standard 3-hole patterns in supported control panel enclosures. With the D137 mounting bracket (not included), the ITS-DX4020-G can be mounted to other enclosures.

Wiring Considerations

If you are mounting the ITS-DX4020-G in a separate enclosure, a tamper switch is required in the enclosure. Separate power-limited wiring from non-power-limited wiring by 6.4 mm (0.25 in).

The maximum wire resistance for control panel connections is 1.6 Ω. The maximum wire distance is 30.5 m (100 ft) for 22 AWG wire and 61 m (200 ft) for 18 AWG wiring.

Parts Included

Quant.	Component
1	ITS-DX4020-G Communicator
1	Hardware pack (mounting hardware, magnetic base antenna, four-wire bus/power cable, and program jumper)
2	Literature – Quick Start Guides
1	Literature - CD

Technical Specifications

Electrical

Current (operating):	Standby: 65 mA Alarm: 200 mA
Voltage (operating):	12 VDC
Ripple/Noise:	200 mVpp maximum
PSTN FSX Port:	17 V minimum supplied
Radio:	GSM quad band radio Europe: 900 MHz and 1800 MHz North America: 850 MHz and 1900 MHz

Environmental

Environment:	EN50131-1 Environmental Class II - Indoor
Relative Humidity:	5% to 93% non-condensing
Temperature (operating):	-10°C to +55°C (+14°F to +131°F)

Mechanical

Dimensions:	5.2 in. x 3.1 in. x 1 in. (133 mm x 80 mm x 23 mm)
Antenna:	Magnetic base omni-directional 2.5 m (8.2 ft) cable with SMA connector
SIM Card:	3V/1.8V SIM (compliant with GSM 11.12 recommendation)
USB:	Connector: mini-B)

Ordering Information

ITS-DX4020-G GPRS/GSM Communicator **ITS-DX4020-G**
Multi-function, security communicator

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