Conettix D6100i Communications Receiver/Gateway

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BOSCH
Invented for life

▶ Up to 3200 accounts for local-area network (LAN) or wide-area network (WAN) communications

▶ Two lines for public switched telephone network (PSTN) communications

▶ Supports Caller ID

▶ NIST AES Certification for Network Communications

▶ Supports 128-bit AES Rijndael encryption

The Conettix D6100i Communications Receiver/Gateway provides alarm communications over:
- Telephone line communications over the public switched telephone network (PSTN).
- Internet or intranet communications over a LAN or WAN using standard user datagram protocol and internet protocol (UDP/IP).
- Simultaneous PSTN and LAN or WAN communications.

The D6100i has a compact, economical design that is well-suited for applications such as small central stations, gated communities, security offices, or university campuses. The D6100i uses the same firmware and supports the same major communication formats as the Conettix D6600 Communications Receiver/Gateway.

System overview

PSTN Communications Configuration
This configuration uses existing telephone lines. A control panel's signal transmits over a PSTN analog telephone line to the D6100i. The receiver translates the signal to a common data format and sends the signal through Ethernet LAN, WAN, or RS-232 to a central station automation system.

Internet or Intranet Communications Configuration
This configuration requires Conettix IP hardware components, uses existing Internet or intranet structures, and avoids additional telephone service costs. This configuration permits the Conettix D6200 Programming/Administration Software to connect to the D6100i remotely. A control panel's signal transmits over the LAN or WAN to the D6100i. The D6100i translates the signal to a common data format and sends the signal through Ethernet LAN, WAN, or RS-232 to a central station automation system. The central automation system sends information to operator work stations.
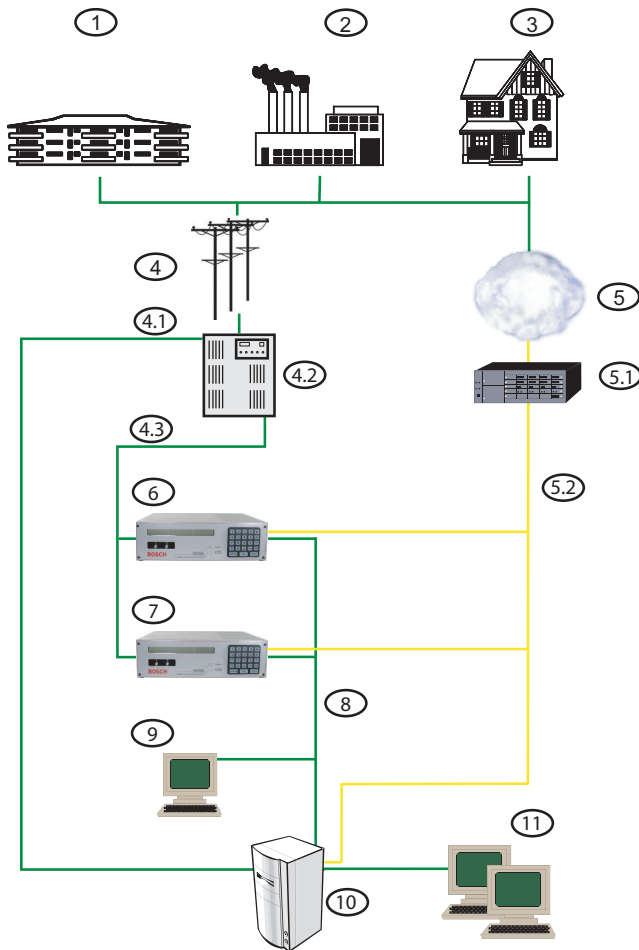
Conettix D6200 Programming/Administration Software
Conettix D6200 Programming/Administration Software is a PC-based application that allows users to view, change, upload, and download D6100i programming parameters through Ethernet LAN, WAN, or RS-232 serial port. With the Conettix D6200 Programming/Administration Software, users can edit programming parameters and view the status of the receiver.

ⓘ **Notice**
Conettix D6200 Programming/Administration Software works with the following operating systems and associated service packs: Microsoft Windows 98, Windows 98 Second Edition, Windows Me, Windows NT, Windows 2000, and Windows XP.

1. Access Control

2. Commercial Monitoring

3. Residential Monitoring

4. PSTN

   4.1 Two-way Audio
   4.2 Private Branch Exchange (PBX)
   4.3 Analog Telephone Lines

5. LAN/WAN

   5.1 Firewall, Router, and Hub
   5.2 LAN

6. Conettix D6100i Communications Receiver/Gateway 1

7. Conettix D6100i Communications Receiver/Gateway N

8. RS-232

9. Conettix D6200 Programming/Administration Software

10. Automation System

11. Central Station Operators

Functions

Communication Formats

• Acron Superfast	• ROBOFON
• Ademco Slow	• Scantronics Scancom
• Ademco Express	• SERIEE FSK/DTMF
• Ademco High Speed	• Sescoa Super Speed
• Ademco Contact ID	• SIA 8/20/300
• CFSK BELL/V.21	• SIA ADT
• FBI Superfast	• SIA V.21
• Franklin/Sescoa	• Silent Knight Fast
• ITI	• Silent Knight FSK
• Radionics BFSK	• Standard Pulse Formats
• Radionics Hex	• Sur-Gard DTMF
• Radionics Modem II	• Telim
• Radionics Modem IIe/IIIa[2]	• Veritech FSK

PSTN Communications
- Receives signals on two telephone lines simultaneously.
- Independent, configurable communication format settings for each telephone line.
- Visual front panel light emitting diode (LED) indicators for on-line and line-fault status conditions.

Two-way Audio
- Able to transfer calls to another line or extension
- Activated by account numbers and by events

Flash Technology
Using the Conettix D6200 Programming/Administration Software, flash technology in the D6100i allows for software upgrades without additional hardware or firmware changes.

LAN or WAN Gateway Communications
- Requires Conettix IP hardware components.
- Two-way communications with a control panel.
- Supervised network automation computer links.
- Supports up to 3200 network accounts.
- Ethernet configuration available.
- Supports 128-bit AES Rijndael encryption.

Supervision and Programming with Network Communications
The protected premises sends supervision messages to the D6100i at a programmed rate. Users can program the supervision rate to be 5 seconds to 1275 seconds. The D6100i acknowledges the supervision message, providing end-to-end security. If authentication and encryption algorithms detect

potentially damaging activity, they alert the central station operator. The data network's communication link is continuously supervised. Even when monitoring thousands of control panels, the system consumes only a small amount of bandwidth.

Certifications and approvals

Region	Certification	
USA	UL	AMCX: Central Station Alarm Units (UL1610 and UL1635); AMCX7: Central Station Alarm Units Certified for Canada (cULus)
	UL	UOJZ: Control Units, System (UL864)
Brazil	ANATEL	2025-07-1855
USA	CSFM	7300-1615:0232

Installation/configuration notes

The D6100i and Monitoring Centers
The D6100i has extended edges so that installers can mount it easily into a standard 48.3 cm (19 in.) rack cabinet. Rack cabinets conserve floor space.

> **i** **Notice**
> Rack cabinets are sold separately by a variety of manufacturers.

The D6100i connects directly to automation computers. Users can use the automation system or the D6100i keypad to acknowledge events. There is up to a 2000 event history buffer.

Network Communications and Control Panels
For network communications, it is necessary to use one of following modules with the appropriate control panel: Conettix C900V2 Dialer Capture Ethernet Module or Conettix DX4020 Ethernet Network Interface Module.
Review the control panel specifications for the recommended network interface or dialer capture modules.
The D6100i can supervise up 10 network accounts without a D6201 Security Key. To use the full account capacity, a D6201 Security Key is required.

Parts included

Quantity	Component
1	Conettix D6100i Communications Receiver/Gateway
1	P6602 Input and Output Cable
1	Conettix D6200CD CD-ROM
1	External Battery Connection
1	Country Specific AC Transformer (refer to Ordering Information for details)

Technical specifications

Automation Outputs

Automation Outputs:	SIA mode 6500 mode

Enclosure

Rack Mount Dimensions (2U):	9.0 cm. x 37.5 cm x 25.5 cm (3.5 in. x 19 in. x 10 in.)
Standalone Dimensions:	9.0 cm. x 30.5 cm. x 25.5 cm (3.5 in. x 12 in. x 10 in.)
Weight :	3 kg (7 lb)

Environmental Considerations

Temperature (Operating):	0ºC to 50ºC (+32ºF to +122ºF)

Power Requirements

AC Nominal Operating Range:	18 VAC ±15% with 50 VA transformer
Standby Power:	Uninterruptible power supply (UPS) containing a sealed lead-acid battery, 12 V, 7 Ah to 18 Ah

Current Requirements

Battery Current:	330 mA
UPS AC Standby Current:	180 mA

Telephone

Telephone:	RJ11C modular jacks, with 26 AWG or larger wire diameter

Ringer Equivalence Number (REN)

REN:	0.4 B
Industry Canada (IC) REN:	0.2

Display

Screen Dimensions:	1.8 cm x 15.2 cm (0.7 in. x 6.0 in.) dot matrix LCD, 5 x 7 dots per character. Shows two separate lines, 40 characters per line.
Indicators:	LED display section indicates receiver status and power.

Inputs and Outputs

For Automation Computer Connection:	One RS-232 interface port COM3 or Ethernet for IP
For External Serial Printer, PC, Modem:	One RS-232 interface port COM4
For Parallel Printer Connection:	One parallel printer port
Number of Programmable Inputs:	Two (wire harness included)

Number of Programmable Outputs:	Two (wire harness included)
Ethernet:	RJ45 modular jack for Ethernet 10Base-T or 100Base-TX (Auto-Sensing)

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Ordering information

Conettix D6100i Kit (120 VAC)
Provides alarm communications over two PSTN lines or via a network. Supports two-way audio. Includes one D6100i, one transformer 120 VAC, and one blade-style plug. For use in Colombia, Dominican Republic, Guatemala, Haiti, Honduras, Panama, Taiwan, Bahamas, Bermuda, Canada, Costa Rica, Puerto Rico, Mexico, and the United States.
Order number **D6100i-01**

Conettix D6100i Kit (230 VAC)
Provides alarm communications over two PSTN lines or via a network. Supports two-way audio. Includes one D6100i, one transformer 230 VAC, and one round pin-style plug. For use in Albania, Angola, Chile, Greece, Greenland, Guinea, Iceland, Luxembourg, Russian Federation, South Korea, Thailand, United Arab Emirates, Yugoslavia, Austria, Austria, Belgium, Bulgaria, Croatia, Denmark, Finland, France, Germany, Hungary, India, Indonesia, Iraq, Israel, Italy, Mongolia, Netherlands, Norway, Pakistan, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Kuwait, and Malaysia.
Order number **D6100i-02**

Conettix D6100i Kit (220 VAC)
Provides alarm communications over two PSTN lines or via a network. Supports two-way audio. Includes one D6100i, one transformer 220 VAC, and one blade-style plug. For use in China, Republic of the Phillipines, and Saudi Arabia.
Order number **D6100i-03**

Conettix D6100i Kit (240 VAC)
Provides alarm communications over two PSTN lines or via a network. Supports two-way audio. Includes one D6100i, one transformer 240 VAC, and one inverted V-style plug. For use in Australia, Argentina, and New Zealand.
Order number **D6100i-04**

Conettix D6100i Kit (240 VAC)
Provides alarm communications over two PSTN lines or via a network. Supports two-way audio. Includes one D6100i, one transformer 240 VAC, and one rectangle-style plug. For use in Gambia, Ireland, United Kingdom, Cyprus, Falkland Islands, Grenada, Kenya, and Uganda.
Order number **D6100i-05**

P6602 Input and Output Cable
Connects to the receiver and provides use of the input and output lines.
Order number **P6602**

Conettix D6100 Rack Mount Kit
Standard rack mount kit measuring 48.3 cm (19 in.).
Order number **D6100RMK**

3200 Account Conettix IP Security Key (LPT)
Designed for parallel ports. Allows each Conettix Communications Receiver/Gateway to support a maximum of 3200 IP accounts.
Order number **D6201**

3200 Account Conettix IP Security Key (USB)
Designed for USB ports. Allows each Conettix Communications Receiver/Gateway to support a maximum of 3200 IP accounts.
Order number **D6201-USB**

500 Account Conettix IP Security Key (USB)
Designed for USB ports. Allows each Conettix Communications Receiver/Gateway to support 500 IP accounts.
Order number **D6201-500-USB**

Conettix D6200CD CD-ROM
Provides software for programming, operating, simulating, and demonstrations. Includes PDF documentation files for hardware and software relating to the Conettix Communications Receiver/ Gateway.
Order number **D6200CD**