Conettix D6100IPv6 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 with Caller ID support

▶ Supports IPv6 and IPv4 networks

▶ NIST-FIPS197 certified for 128- to 256-bit AES encryption

The Conettix D6100IPv6 Communications Receiver/ Gateway provides simultaneous alarm communications using:
- Public switched telephone network (PSTN lines).
- LAN, WAN, or cellular networks using standard datagram protocol and internet protocol (UDP/IP).

The D6100IPv6 has a compact, economical design that is well-suited for applications such as small central stations, gated communities, security offices, or university campuses. The D6100IPv6 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 D6100IPv6. 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 components at the premises, uses existing Ethernet or cellular networks, and avoids additional telephone service costs. This configuration permits the Conettix D6200 Programming/Administration Software to connect to the D6100IPv6 remotely. A control panel's signal transmits over the LAN, WAN, or cellular network to the D6100IPv6. The D6100IPv6 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.
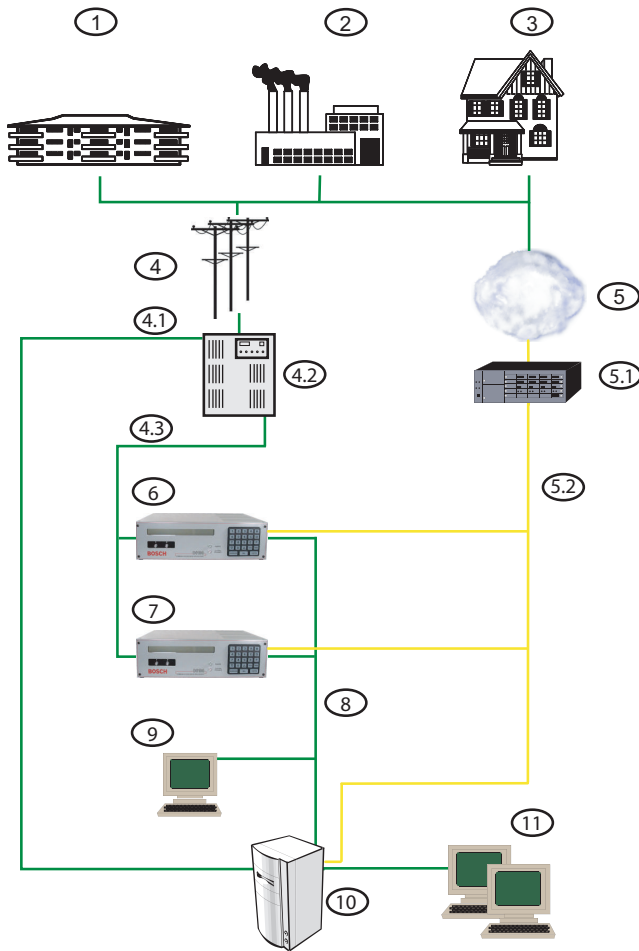
Conettix D6200 Programming/Administration Software

Conettix D6200 Programming/Administration Software is a PC-based application that allows users to view, change, upload, and download D6100IPv6 programming parameters. With the Conettix D6200 Programming/Administration Software, users can edit programming parameters, manage IP accounts, and view the status of the receiver.

ℹ️ **Notice**
Conettix D6200 Programming/Administration Software works with the following operating systems and associated service packs: 32-bit Windows 2000 SP4, 32-bit and 64-bit Windows XP, Windows Vista, Windows 7, and Windows 8.

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 D6100IPv6 Communications Receiver/Gateway 1

7. Conettix D6100IPv6 Communications Receiver/Gateway N

8. RS-232

9. Conettix D6200 Programming/Administration Software

10. Automation System

11. Central Station Operators

Functions

Supported PSTN 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 (Bosch) BFSK	Standard Pulse Formats
Radionics (Bosch) Hex	Sur-Gard DTMF
Bosch Modem4	Telim
Bosch ModemII/IIe/IIIa[2]	Veritech FSK

Software Upgrades

Using the Conettix D6200 Programming/
Administration Software, the D6100IPv6 allows for
easy one-button software upgrades.

PSTN Communications

- Receives signals on two telephone lines
  simultaneously with independent format settings for
  each line.
- Supports the award winning VOIP compensation
  feature for improved reception of digitally distorted
  signals.
- Front panel LED indicators for on-line and line-fault
  status conditions.
- Supports Two-way Audio by transferring calls to
  another line activated by account numbers or events.

LAN or WAN Gateway Communications

- Two-way supervised IPv6 and IPv4 communication
  support to control panels and automation systems
- Supports up to 3200 supervised LAN, WAN or cellular
  network accounts
- Uses secure Conettix IP protocol with 256-bit AES
  encryption and anti-substitution features

Supervision and Programming with Network Communications

The protected premises sends supervision messages
to the D6100IPv6 at a programmed rate. Users can
program the supervision rate to be 5 seconds to 24
hours. The D6100IPv6 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	
Europe	CE	2004/108/EC EMC Directive (EMC); 2006/95/EC Low-Voltage Directive (LVD); 1999/5/EC Radio equipment and [-LT, -02]
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)
	CSFM	7300-1615:0232 FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES
Brazil	ANATEL	1701-13-1855

Installation/configuration notes

The D6100IPv6 and Monitoring Centers
The D6100IPv6 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 D6100IPv6 connects directly or through a network to automation computers. Users can use the automation system or the D6100IPv6 keypad to acknowledge events. There is up to a 2000 event history buffer.

Network Communications and Control Panels
For network communications, with installed telephone based control panels, use a Conettix Dialer Capture module. For network communication with Bosch control panels, use an integrated Cellular or Ethernet Communicator.
For network communication with control panels without Conettix IP support, use the C900V2 Dialer Capture Ethernet Module.
The D6100IPv6 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 D6100IPv6 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 12 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):	0° - +50°C (+32° - +122°F)

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 - 18 Ah

Current Requirements

Battery Current:	340 mA
UPS AC Standby Current:	260 mA

Telephone

Telephone connection:	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
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:	RJ-45 modular jack for Ethernet 10Base-T or 100Base-TX (Auto-Sensing)

Ordering information

Conettix D6100IPv6 Communications Receiver/Gateway
Provides a 10/100 Base T network interface connection for IP account monitoring and central station automation with Conettix D6600 Communications Receiver/Gateway. Supports IPv6/IPv4 dual stack and up to 256-bit AES encryption.
Order number **D6100IPv6**

Accessories
Conettix D6100IPv6 Kit (120 VAC)
Includes one D6100IPv6, 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 **D6100IPV6-01**

Conettix D6100IPv6 Kit (230 VAC)
Includes one D6100IPv6, 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, Iran, Iraq, Israel, Italy, Mongolia, Netherlands, Norway, Pakistan, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Kuwait, and Malaysia.
Order number **D6100IPV6-02**

Conettix D6100IPv6 Kit (240 VAC)
Includes one D6100IPv6, one transformer 240 VAC, and one inverted V-style plug. For use in Australia, Argentina, and New Zealand.
Order number **D6100IPV6-04**

Conettix D6100IPv6 Kit (240 VAC)
Includes one D6100IPv6, 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 **D6100IPV6-05**

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

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

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

P6602 Input and Output Cable
Supports use of input and output lines for Conettix receivers.
Order number **P6602**