

D6600 Communications Receiver/Gateway



Security Systems



- 32 lines for public switched telephone network (PSTN) communications
- Up to 3200 accounts for local-area network (LAN) or wide-area network (WAN) communications
- Telephone line terminator cards for isolation and transient suppression
- Front panel access to CPU card and line cards
- Hot-swappable line cards
- Two-way audio
- Caller ID, ANI, and DNIS
- NIST AES Certification for Network Communications

The D6600 Communications Receiver/Gateway with NetCom hardware components works in the following configurations:

- 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 network environment reduces signal-reporting time and provides instant notification when a site experiences communication problems. A D6600 with NetCom hardware is compatible with most manufacturer's fire and security system control panels. With Bosch Security Systems' control panels, high speed remote programming over the network is also possible.

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 D6600 Communications Receiver/Gateway. The D6600 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

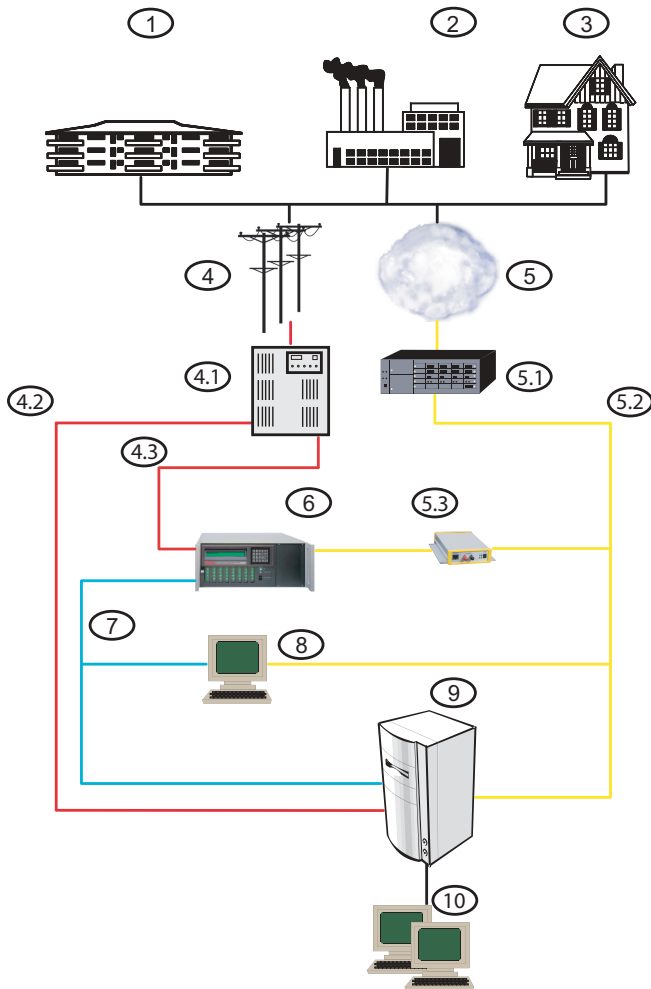
This configuration requires NetCom hardware components, uses existing Internet or intranet structures, and avoids additional telephone service costs.

This configuration permits the D6200 Programming Software to connect to the D6600 remotely. A control panel's signal transmits over the LAN or WAN to the D6600 Communications Receiver/Gateway. The D6600 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 workstations.

D6200 Programming Software

D6200 Programming Software is a PC-based application that allows you to view, change, upload, and download D6600 programming parameters through a network connection or RS-232 serial port. Through the D6200 Programming Software you can edit CPU and line card parameters; view the status of all accounts in the databases; add, edit, and delete accounts; and configure network operations.

Note: D6200 Programming Software works with the following operating systems: 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 Private Branch Exchange (PBX)
 - 4.2 Two-way Audio
 - 4.3 Analog Telephone Lines
5. LAN/WAN
 - 5.1 Firewall, Router, and Hub
 - 5.2 LAN
 - 5.3 D6680 Ethernet Network Adapter
6. D6600 Receiver
7. RS-232
8. D6200 Programming Software
9. Automation System
10. 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
• RB2000	• VONK

PSTN Communications

Function	Benefit
Dialed number identification service (DNIS) adjusts line card settings according to the telephone number dialed by the control panel.	Handles more field dialers with fewer line cards and allows you to create virtual lines.
Caller identification (Caller ID) alarm processing stores corresponding handshake formats. The processing automatically recalls the format when the same caller identification is processed.	Shortens the amount of time that calls are connected to the receiver. Decreases money spent on fixed hardware or monthly phone bills.
Uses the D6640 or D6641 Telephone Line Card.	Digital signal processing technology in the cards allows the D6600 to recognize more communication formats and accurately decode information.

Additional PSTN Communications Advantages

- Automatic number identification (ANI) system identifies incoming telephone numbers.
- Each line card has four telephone lines.
- Receives signals on up to 32 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

- Ability to transfer calls to another line or extension
- Activated by account numbers and by events

LAN or WAN Gateway Communications

- Requires NetCom 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 D6600 at a programmed rate. You can program the supervision rate to be 5 seconds to 1275 seconds. The D6600 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.

Front Panel Access

The D6600 Communications Receiver/Gateway design provides convenient access to the CPU card or the hot-swappable telephone line cards. A hot-swappable card can be removed and replaced without affecting system performance.

Flash Technology

Using the D6200 Programming Software, flash technology in the D6600 Communications Receiver/Gateway allows for software upgrades without additional hardware or firmware changes.

Parts Included

Quantity	Component
1	D6600 Communications Receiver/Gateway
1	D6610 CPU Card
1	D6615 CPU Terminator Card
1	D6640 Line Card or D6641 Line Card (Expanded Memory)
1	D6645 Telephone Line Terminator Card
1	D6600CD CD-ROM Contains D6200 Programming Software
1	P6601 Battery Cable
1	P6602 Input and Output Cable

Certifications and Approvals**D6600 Certifications and Approvals**

Approvals	Austel Approved
	CE
	CTR-21
	EN60950 Safety
	EN50130-4 Electromagnetic Compatibility
	EN55022 Radiated/Conducted Emissions
	CSFM
	HKFSD
	FCC, Part 15 Radiated/Conducted Emissions
	FCC, Part 68 Telecom
	FM
	IC (Industry Canada)
	ULC (Underwriters Laboratories of Canada)
UL Standards	UL365, Police Station Connected Burglar Alarm and Systems
	UL864, Control Units for Fire Protective Signaling Systems
	UL1610, Central Station Burglar Alarm Units

Network Communications Certifications and Approvals

Approvals	National Institute of Standards and Technology's Advanced Encryption Standard Certification (Certificate Number 82)
	CE
	FCC, Part 15 Radiated/Conducted Emissions
UL Standards	UL864, Control Units for Fire Protective Signaling Systems
	UL1610, Central Station Burglar Alarm Units

Installation/Configuration Notes**The D6600 and Monitoring Centers**

The D6600 has extended edges so that you can mount it easily into a rack cabinet. Mount up to eight D6600 Communications Receiver/Gateways into a standard 48.3 cm (19 in.) rack cabinet to conserve floor space. Each D6600 connects 32 telephone lines. Eight D6600 units can connect a total of 256 telephone lines, process 600,000 digital accounts, and process 28,800 supervised Internet or intranet accounts.

Note: Rack cabinets are sold separately by a variety of manufacturers.

Incorporating NetCom Function into the D6600

With the correct NetCom hardware components, the D6600 Communications Receiver/Gateway can supervise the network communications link. The NetCom hardware components include:

- D6201 NetCom Security Key (Parallel)
- D6201-USB NetCom Security Key
- D6672 COM 1 Expansion Kit
- D6680 Ethernet Network Adapter

Network Communications and Control Panels

For network communications, you must use one of following modules with the appropriate control panel: C900TTL-E Dialer Capture Module, D9133TTL-E Network Interface Module, or DX4020 Network Interface Module. Review your control panel specifications carefully for the recommended network interface or dialer capture modules.

Technical Specifications

Automation Outputs

Automation Outputs:	SIA mode
	6500 mode

Enclosure

Color:	Dark gray
Material:	Aluminum, semi-gloss enamel
Dimensions (H x W x D):	17.8 cm x 48.3 cm x 49.5 cm (7.0 in. x 19.0 in. x 19.5 in.)
Weight:	8.68 kg (19.15 lb)

Environmental Considerations

Temperature (Operating):	0°C to 50°C (+32°F to +122°F)
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Power Requirements

AC Input Current:	2.5 A maximum
AC Input Frequency:	50 Hz or 60 Hz
AC Input Voltage:	100 VAC to 120 VAC 220 VAC to 240 VAC
Standby Power:	Uninterruptible power supply (UPS) containing a sealed lead-acid battery, 12 V, 7 Ah to 18 Ah

Trademarks

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Ordering Information

D6600 Communications Receiver/Gateway	D6600
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Hardware Accessories

D6610 CPU Card	D6610
D6615 CPU Terminator Card	D6615
D6640 Telephone Line Card	D6640
D6641 Telephone Line Card (Expanded Memory)	D6641
D6645 Telephone Line Terminator Card	D6645
D6672 Com 1 Expansion Kit	D6672
D6680 Ethernet Network Adapter	D6680-E120
P6601 Battery Cable	P6601
P6602 Input and Output Cable	P6602
P6603 Acknowledgement Button	P6603

Software Options

D6600 CD ROM (D6200 Software)	D6600CD
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