Tradition of quality and innovation

For over 100 years, the Bosch name has stood for quality and reliability. Bosch Security Systems proudly offers a wide range of fire, intrusion, social alarm, CCTV, management and communication systems and components to help you find the solution for any application. We are the global supplier of choice for innovative technology backed by the highest level of service and support. When you need solutions you can rely on, choose Bosch.

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Conettix – a complete family of security communication solutions

Reference Guide
Conettix: Solutions for nearly all applications and transmission technologies

The Conettix family is a complete line of security communication products for intrusion and fire systems.

It includes communicator solutions for security systems as well as receivers for monitoring centers. Conettix products enable reliable data transmission via a wide range of transmission paths and formats.

Conettix enables event transmission to monitoring centers and to users as notification message, as well as data up/download for Bosch panels. It also offers solutions for audio and video verification.

The Conettix family:

- **Conettix Receiver**  
  Page 04  
  Receiver solutions for monitoring centers

- **Conettix IP**  
  Page 08  
  IP-based networks transmission solutions

- **Conettix PSTN**  
  Page 14  
  Telephone network transmission solutions

- **Conettix GSM**  
  Page 18  
  Wireless transmission via GSM networks
The Conettix Receivers are powerful gateways that translate the alarm control panel’s signal to a common data format and send the signal to a monitoring center automation system or show it on the receiver display. They can receive messages in over 76 different formats from major panel types of different manufacturers. Both receivers are easy to operate and share the same user interface. The programming and update can easily be done via the D6200 Programming Software package.
D6000/D6100 Communications Receiver/Gateways

D600

The standard version includes one Line Card with four 4 PSTN lines and is extendable to 32 lines. Offers modular construction with hot-swappable cards for quick and easy service. With additional hardware components, the D600 supports IP transmission and serves as a wireless receiver. PC-based platform design for future expandability. It is the receiver of choice for large monitoring centers.

D6100

This receiver version comes with two PSTN lines that are not extendable. The compact, economical design of the D6100 makes it well-suited for applications such as small monitoring centers, gated communities, security offices or university campuses.

D6200

The D6200 Software Package allows the user to view, change, upload and download all of the receiver’s programming parameters via a serial connection or network.

<table>
<thead>
<tr>
<th>Feature</th>
<th>D6100</th>
<th>D6600</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSTN Lines</td>
<td>2</td>
<td>4 – 32</td>
</tr>
<tr>
<td>IP Receiver</td>
<td>planned</td>
<td>Yes (optional)</td>
</tr>
<tr>
<td>Radio Receiver</td>
<td>–</td>
<td>Yes (SafeCom)</td>
</tr>
<tr>
<td>History buffer (events)</td>
<td>1,000</td>
<td>20,000</td>
</tr>
<tr>
<td>Caller ID</td>
<td>Yes</td>
<td>yes</td>
</tr>
<tr>
<td>DNIS, ANI support</td>
<td>–</td>
<td>yes</td>
</tr>
<tr>
<td>Hot-swappable line cards</td>
<td>–</td>
<td>yes</td>
</tr>
<tr>
<td>Applications</td>
<td>Small systems</td>
<td>Monitoring centers</td>
</tr>
</tbody>
</table>
Conettix Receiver D6600

D6610 CPU Card

D6600 Expansion Cards

D6610

The D6610 CPU Card is a modular design plug-in circuit board. Offers programmable FLASH memory for easy firmware upgrades. Includes a 20,000-event history buffer and a computer microprocessor. This card takes the incoming information from the line card and routes the information to the internal printer, an automation port, the LCD display on the front of the receiver, or to an external printer. The D6600 uses one CPU Card.
D6600 Expansion Cards

**D6615**

Modular design plug-in circuit board. Provides a shielded interface between the D6610 CPU Card and external connections to automation database computers and printers. Located behind the CPU Card, the CPU Terminator Card provides the D6600 with two serial ports, a parallel port, and a general I/O Port. The serial ports can be used for computer automation, PC connection for programming, or IP connection with a D6680.

**D6641**

Line Card with digital signal processor (DSP) technology. Answers and decodes signals from up to four telephone lines simultaneously. Includes improved PSTN processing, additional memory for future enhancements, and single firmware upgrade package. The D6600 will accept up to eight telephone line cards to create a total of 32 telephone lines. Each card requires one D6645.

**D6645**

Modular design plug-in circuit board. Provides four modular RJ11 jacks for telephone line connections. Located behind the Line Card, the Telephone Line Terminator Card isolates and protects the Line Card against outside voltage surges that may come in over the telephone line. Each card requires one D6641.
Conettix IP is a complete award-winning system for transmission over IP-based networks. It overcomes the limitations of the digital PSTN dialer approach and permits supervised communication at virtually no cost while using only a narrow network bandwidth. This makes Conettix IP the perfect solution for reducing costs and enabling more reliable communication at the same time. Thanks to features including end-to-end supervision and advanced encryption, it is also well suited for high-security applications.

**Key Features**

- Constant supervision via heartbeat messages
- Small bandwidth required – average 64 bytes UDP/IP package
- 128-bit AES Rijndael Encryption
- Message Authentication (Anti-Substitution and Anti-Replay protection)
- Supports both static and dynamic IP addressing
# Conettix IP

## D6600

With additional hardware, the D6600 Receiver provides up to 3200 network accounts for IP communications. Offers simultaneous PSTN and Internet/intranet communications over a LAN or WAN using standard UDP/IP protocol. The network connectivity option avoids additional telephone service cost and permits the D6200 Administration Software to connect to the D6600 remotely.

## D6672

The D6672 COM1 Expansion Package is designed to provide the D6600 Receiver with an additional RS-232 interface port connection. This is used to connect an additional D6680 Network Adapter for Network Communications.

## D6680

The D6680 Network Adapter is a two-channel network adapter. Connects a D6600 Serial Port to an Ethernet LAN/WAN. One Network Adapter is required to receive and send data via IP-network.
Conettix IP

D6680 application

Failover Solution
An installed Conettix IP System should consist of at least two D6600s and two D6680s to allow for a redundant backup to the first system in the event of a system #1 failure. The Alternate MAC Address function will allow a switch between the D6680s to happen without the network knowing that anything has changed. This would allow for a change over from D6680 #1 to D6680 #2 and only one of the D6680s connected to the network at one time.
Conettix IP

D6200

The D6200 Software Package allows the user to view, change, upload and download all of the receiver’s programming parameters via a serial connection or network. For IP operation, D6200 is used to view the status of all accounts in the databases, add, edit, or delete accounts and configure network operations.

D6201 / D6201

The D6201 and D6201-USB Security Keys are designed for use with the D6200 Programming Software that communicates with the D6600 Receiver. The key allows the D6600 to support a maximum of 3200 network accounts.

RPS-INTL

RPS-INTL Remote Programming Software is an account management and panel-programming utility. The software package allows computers equipped with the Microsoft Windows operating system to act as a remote programming, record storage, remote control, and diagnostics tool for specific Bosch control panels.
Conettix IP

**DX4020**

The DX4020 Network Interface Module creates two-way communications over Ethernet networks for specific Bosch security control panels. Typical uses include reporting via IP-network and remote administration with Remote Programming Software (RPS). This data bus module is used to communicate over an IP-based network by taking the control panel bus data and converting it to UDP/IP data.

**C900TTL-E**

The unit can convert reports from a conventional PSTN dialer into an IP package, forward it to a D6600 IP receiver and relay a confirmation message back to the panel. In case of network failure, transmission can automatically switch back to the PSTN line. The C900TTL-E is compatible with a wide range of control panels from different manufacturers because it can accept multiple industry standard digital dialer formats.
**Conettix IP**

**C900TTL-E Communication Protocols**

- Radionics Modem IIe and Modem IIIa2
- Radionics Modem II
- DTMF (includes Contact ID, High Speed and 4/2 Express)
- DTMF (includes Contact ID, High Speed and 4/2 Express where dialer retransmits quickly)
- BFSK (2300Hz ACK Tone)
- BFSK (1400Hz ACK Tone)
- FBI Superfast DTMF (2300 Hz ACK Tone)
- FBI Superfast DTMF (1400 Hz ACK Tone)
- Pulse 3/1, 3/1 Checksum (2300 Hz ACK Tone)
- Pulse 3/1, 3/1 Checksum (1400 Hz ACK Tone)
- Pulse 4/2 (Long 2300 Hz ACK Tone)
- Pulse 4/2 (Long 1400 Hz ACK Tone)
- SIA Bell 103 (110/300 baud, 2016 Hz ACK Tone)
- ADT-SIA
- Telim
- Robofon
- SIA Bell 103 (110/300 baud, 2083 Hz ACK Tone)
- SIA V.21 (110/300 baud)
- Seriee DTMF
- Seriee FSK

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**C900TTL-E wiring diagram**

![C900TTL-E wiring diagram](image-url)
Conettix PSTN delivers the solutions you need for data transmission over standard phone lines. Most Bosch panels include an onboard dialer for PSTN transmission. Further standalone communicators for transmission via analog and digital (ISDN) lines are available.

Bosch also offers very powerful and flexible PSTN receiver solutions with an outstanding price/performance ratio.
## Conettix PSTN

### D6600

The standard version includes one Line Card with 4 PSTN lines and is extendable to 32 lines. Offers modular construction with hot-swappable cards for quick and easy service. Employs intelligent functions to detect and receive formats faster to cut costs. Supports Caller ID, DNIS, ANI and Audio Verification. It is the receiver of choice for large monitoring centers.

### D6100

This receiver version comes with two PSTN lines that are not extendable. Employs intelligent functions to detect and receive formats faster to cut costs. Supports Caller ID and Audio Verification. The compact, economical design of the D6100 makes it well-suited for applications such as small monitoring centers, gated communities, security offices or university campuses.
## Conettix PSTN

### D6641

Line Card with digital signal processor (DSP) technology. Answers and decodes signals from up to four telephone lines simultaneously. Includes improved PSTN processing, additional memory for future enhancements, and single firmware upgrade package. The D6600 will accept up to eight telephone line cards to create a total of 32 telephone lines. Each card requires one D6645.

### D6645

Modular design plug-in circuit board. Provides four modular RJ11 jacks for telephone line connections. Located behind the Line Card, the Telephone Line Terminator Card isolates and protects the Line Card against outside voltage surges that may come in over the telephone line. Each card requires one D6641.

### RPS Modem

The RPS Modem is a serial port modem used to establish the connection between a RPS PC and the panel via PSTN network.
RPS-INTL Remote Programming Software is an account management and panel-programming utility. The software package allows computers equipped with the Microsoft Windows operating system to act as a remote programming, record storage, remote control and diagnostics tool for specific Bosch control panels.

The rmv4c Four-channel Colour Remote Video Module can store 1000 frames of video from its four video inputs and send those frames over a standard or cellular phone line to a control station, monitoring service provider or end user. Depending on programming, those video frames can be pre- and post-alarm images for alarm verification or scheduled transmissions for routine monitoring services. With the included software, end users can receive video locally by direct connection to the rmv4c or they can dial into the rmv4c from remote locations. A video output is included for connecting to a local monitor or to an additional recorder.
Conettix GSM provides wireless transmission solutions for GSM networks. GSM is the technology that underlies mobile phone networks worldwide. It is excellently suited for wireless security communication due to great network coverage and attractive pricing. GSM can be used as backup or primary transmission path.
**Conettix GSM**

**ITS-300GSM**

The ITS-300GSM is a GSM transmitter that can capture the information sent from a PSTN dialer and re-send the message in a different format – for example to a mobile phone as text message (SMS) and to a monitoring center via SMS or data link. Furtheron a transmission can be initiated by input events and fault messages. In transparent mode, signals from a PSTN dialer can be sent transparently via GSM network to a PSTN receiver if the PSTN line is unavailable.

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**DS900iGSM**

The DS900iGSM is a GSM transmitter that can send a text message (SMS) initiated by input events and fault messages. The unit has one remote controllable output. In transparent mode, signals from a PSTN dialer can be sent transparently, via GSM network to a PSTN receiver if the PSTN line is unavailable.

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**D6100/D6600**

Both receivers can be used to receive messages sent in transparent mode via PSTN lines.