



Radionics[™]

D6500 Security Receiver Specification Sheet

Standard Features

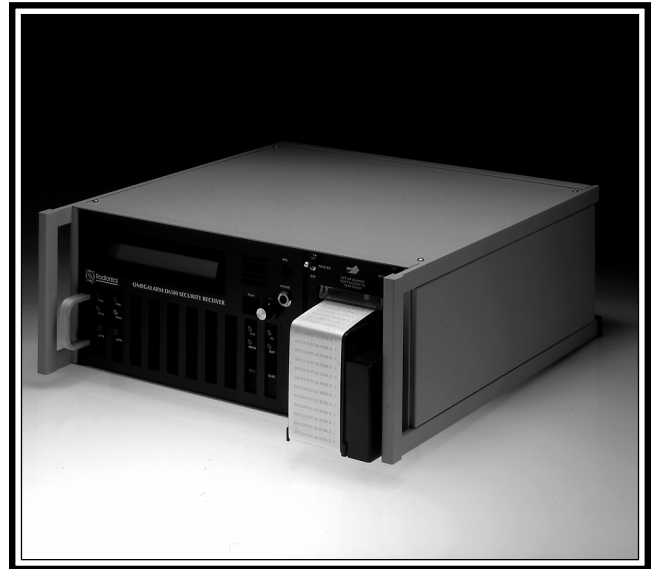
- UL Listed for fire and burglary
- UL Listed supervised external printer output
- Receives signals from up to eight telephone lines simultaneously
- Superior signal decoding capability
- Modular design
- Format parameters programmable with the D5200 Programmer
- Processes information in BFSK, Modem II, IIe, Modem IIIa2[™], 3x1, 3x2, 4x1, and 4x2 pulse formats, Contact ID and most DTMF based formats
- Eighty character dot matrix liquid crystal display
- Direct interface to automation equipment
- Automatic printer take-up reel
- Indicator lights for each line card: on-line, trouble, listen-in and telephone ring indicator
- Built-in power supply and batteries
- Automatic or manual operation
- Integral programmable buzzer and relay output for signal annunciation
- Self-diagnostic test mode
- Optional remote printer or CRT
- Programmable Ring Count

Description

The D6500 Security Receiver uses advanced microprocessor based electronics with a modular design that provides an upgrade path to meet growing needs. The compact D6500 can be counter or rack mounted. While fully compatible with most alarm industry standard pulse formats, it is most powerful when receiving transmissions from Radionics control/communicators. The 80-character LCD displays the three- or four-digit account number, area number, time and date, event (alarm, trouble, restoral, etc.), zone number or point number, and line or group number. The bottom line of the display shows the status of the receiver itself and any external devices connected to it.

The receiver can be interfaced directly to a central station automation computer, CRT terminal, or printer. Use with two-way audio communications devices is supported.

The D6500 begins signal processing by detecting incoming ringing voltage on any of its eight available telephone line cards. The receiver picks up the line and sends acknowledgement tone(s) to the communicator which in turn transmits the information to the receiver. The transmission is verified for accuracy through a variety of error detection methods (appropriate to the type of format). Then a report is displayed and printed. If the data is not received correctly, the acknowledgement tone is withheld, an error message is displayed, and the communicator repeats the message. If



the communicator does not receive an acknowledgement to any of the attempts, it hangs up, re-dials the receiver, and retransmits its reports*.

The receiver can answer up to eight phone lines simultaneously, and can store up to 500 separate events (64 diagnostic and 436 external events) in its signal buffer. The receiver is designed so that it can be upgraded to assure compatibility as new reporting formats and features are made available for Radionics Control/Communicators.

The D6500 can be configured for either a manual or automatic mode of operation. A programmable buzzer alerts the central station dispatcher to each completed transmission.

The receiver package includes an internal printer, two Telephone Line Cards (expandable to eight), an MPU Card, a Printer Card, a Power Supply Card, Terminator Cards, and batteries. The Terminator Cards contain isolation and transient suppression components and provide the input/output connectors for telephone lines, AC power, RS-232, and auxiliary devices.

Transmission Formats Supported

The D6500 can process data with any of the following characteristics:

- Output 2300 and 1400 Hz, Radionics Modem II and IIe handshake tones
- Process data at 1800 and 1900 Hz
- Process data at 10, 20, and 40 Hz Clock rates
- Process data using 3x1, 3x2, 4x1, and 4x2 formats
- Process three- and four-digit account numbers
- Process BFSK
- Process Radionics Modem II, IIe and Modem IIIa2[™]
- Process Ademco Contact ID
- Process most DTMF-based formats

*Some other manufacturers' communicators may differ in operation.

Specifications

LISTINGS AND APPROVALS

UL Central Station Burglary
 UL Police Station Connected Burglary
 Central Station Fire
 Remote Station Fire
 Factory Mutual
 UL Canada

DIMENSIONS

Counter Mount: 17.5" wide, 7.0" high, 19.5" deep
 Rack mount: 19.0" wide, 7.0" high, 19.5" deep

CABINET FINISH

Aluminum/dark gray semi-gloss enamel

POWER INPUT

16.5 VAC, 60 Hz, 50 VA, Class 2 plug-in transformer

STAND-BY POWER

12 VDC 12 Ah (two 12 V, 7 Ah rechargeable sealed lead acid batteries, part number D126)

ELECTRICAL PROTECTION

Built-in surge protection on AC input, all Line Cards, and RS-232 connections. Circuit breakers on AC and battery power supply, and on internal printer.

ENVIRONMENT

Temperature: 120° F (49° C) to 32° F (0° C)
 Humidity: 85% (± 5%) at 86° F (± 3° F) or 30° C (± 2° C)

TELEPHONE CONNECTIONS

The D6500 Receiver is FCC registered under Part No. 68 using RJ11C Modular Interconnect jacks. The D6500 has been type tested and found to comply with the specifications in Subpart J of Part 15 of FCC rules for Class "A" computing devices.
 FCC Registration Number: AJ996H-15725-DT-E
 Ringer Equivalence: 0.2B (AC), 1.7B (DC)

DISPLAY

Screen size: 0.7" high, 6.0" wide dot matrix liquid crystal display (5 x 7 dots per character). Displays two separate lines of 40 characters each.
 LED display section indicates receiver status.

CLOCK/CALENDAR

24-hour clock and 128-year calendar.

PRINTER

Internal:

Prints 40-character line on 2 3/8" wide electro-conductive paper (part number D6007). Monitors paper supply and includes automatic paper take-up reel.

External: UL Listing Pending

Supports most serial printers. Prints 40 character line and monitors paper supply. Has been tested with the Epson LQ510 with serial option, Epson LX810 with serial option, Okidata ML172 serial, Okidata ML182T serial, and the Okidata Microline 320 with serial card.

OUTPUTS

- Auxiliary Listen-In mini-phone jack for external recording device and micro-phone jack to control external recorder.
- Dry closure relay contacts (parallel buzzer operation):
 Relay rating: 2 A @ 24 V AC/DC.
- One RS-232 interface port on the D6515 Processor (MPU) Terminator Card to connect the Automation Computer.
- One RS-232 output port is available with the D6555 Printer Terminator Card (sold separately). The output from this port "echoes" the internal printer reports, and can be independently controlled.
- The automation output is provided in SIA format and Radionics D6500 format, supporting software (ACK and NAK) and hardware (RTS, CTS, DSR, and DTR) handshaking from the automation computer.

ORDERING INFORMATION (Consult price list for further information and prices)

D6500 Security Receiver Includes one each: D6511, D6515, D6530, D6535, D6550, and 16.5V 50 VA transformer. Includes two each: D6541, D6545, D126.
D6506 Receiver Spares Package Includes one each: D6511, D6515, D6530, D6535, D6541, D6545.
D6007 Receiver Printer Paper
D6511 Processor (MPU) Card
D6515 Processor (MPU) Termination Card
D6530 Power Supply Card
D6535 Power Supply Termination Card
D6541 Telephone Line Card
D6545 Telco Termination Card
D6550 Receiver Printer
D6555 Printer Terminator Card
C6560 FastLink™ Line Card
C6565 FastLink™ Termination Card
D126 Battery

CURRENT REQUIRED (Milliamperes)							
Line Cards Installed Ø	8	7	6	5	4	3	2
Idle:	1000	860	780	690	600	420	320
Processing:	1000	860	780	690	600	420	320
Printing:	1400*	1260*	1090*	1000*	900*	820*	720*

*less than 1 second peaks

ISO 9002 
 CERTIFICATE NO. A3946