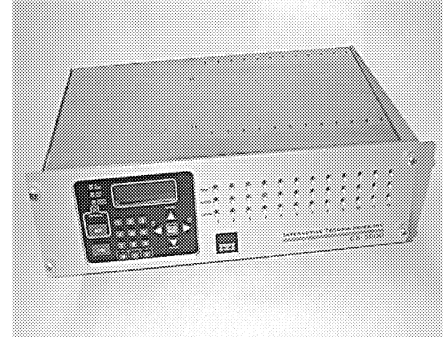


Interactive Technologies, Inc.

W I R E L E S S

Security
Automation
Access Control

CS-5000 CENTRAL STATION RECEIVER



File: Receivers

ITI Part # 60-766

Overview

The ITI® CS-5000 Central Station Receiver is designed with your complete monitoring needs in mind. The CS-5000 is capable of monitoring all ITI® systems including the new Simon™, Concord™, and Advent™ security, home automation, and fire systems. It can also monitor most other popular communication formats.

In addition to monitoring, the CS-5000 provides ITI® and SIA (Security Industry Association) standard format communication outputs for computer automation applications.

The clear, simple user interface includes a multi-line LCD display, bright LED indicators, audio feedback buttons and easy to use display menus.

For a hard copy of all activity, the CS-5000 provides a standard parallel interface to an external printer.

The CS-5000 monitors itself for trouble conditions including AC power failure, backup battery failure, and phone line failure. And, if an AC power failure should occur, the external backup battery provides standby power.

Phone line interface is via individual, front accessible phone line cards. With a capacity of 12 line cards, the system can meet today's as well as tomorrow's needs.

Features

CS-5000 features include the following:

- Continuous call throughput from 12 line cards simultaneously receiving SIA DCS events at 300 baud.
- Automatic line card interpretation of Modem, FSK/BFSK, Tone Burst, and DTMF formats.
- 500 call minimum call history memory.
- Built-in test and diagnostics
- Up to 40 unique programming user passwords with up to two user profiles.
- Up to 12 line cards with up to 20 listen-in and trap accounts per card.
- On-board FLASH memory operating parameter storage with local or remote programming.

Applications

- Security, home automation, fire, and utility meter reading system monitoring.
- Computer automation.

CS-5000 Central Station Receiver

Specifications

Approvals/Listings/Registration

- UL-listed (UL 864) for residential and commercial fire and burglary central station service.
- ULC-listed (UL-Canada)
- Meets UL and IEC 801 Level 3 transient requirements.
- Meets FCC part 15 and part 68 for commercial applications. FCC #AC6USA-31519-AL-E
- DOC Canadian Department of Communications approval. DOC #7013-SIL-1

Supported Panel Communications Formats

Modem Formats (Bell 103, 212)

- SIA-2000, ITI[®] Advent[™]
- SIA-1993, SIA- DCS Level 2+ (SIA F1), ITI[®] Concord[™]
- ITI[®] Commander[®] 2000, LifeGuard[®], UltraGard[™]
- ITI[®] Commander[®], Euro Commander[®], RF Commander[®], HarborGuard[™]
- ITI[®] CareTaker[®] Plus, Security Pro[™] 4000
- ITI[®] METER MINDER[®]
- ITI[®] Fonsafe[™], Phonewatch[™]
- ITI[®] Simon[™]
- ITI[®] SX-V[®] Special, Rollins System 6[®]
- ITI[®] SX-IVB, -V
- ITI[®] SX-III, -IVA

DTMF Formats

- Contact ID[™]
- ITI[®] Advent[™]
- ITI[®] Concord[™]
- Ademco[®]

FSK Formats (1850Hz and 2150 Hz)

- SIA F2 (BFSK)

Tone Burst Formats (1800, 1900 Hz)

- SIA P1, Franklin[®] 3+1
- SIA P2
- SIA P3, 4+2
- SIA P4, Radionics[®] 3+1 with Checksum
- Radionics[®] Hex pulses
- 3+1 Standard
- 3+1 Extended
- Sescoa[®] 3+1, Franklin[®] 3+1

Supported Computer Automation Communication Protocols

SIA

- SIA-CIS

ITI

- ITI[®] Generic
- ITI[®] Comp
- ITI[®] METER MINDER[®]

Operation/Programming

- Receiver throughput: Continuous calls from 12 line cards simultaneously receiving SIA DCS events at 300 baud.
- 500 call minimum call history. (Actual number of calls depends on call size and number of message queue system events.)
- Built-in test and diagnostics
- Up to 40 unique programming user passwords with up to two user profiles.
- Up to 20 audio listen-in and trap accounts per line card.
- Up to 8 character alphanumeric account numbers.
- Up to 5 character alphanumeric account security codes.
- “#” and “*” account number wild card characters.
- Mitsubishi M7700 16 bit microprocessor with up to 8M of Flash or EPROM program memory and 128K of RAM.
- On-board FLASH memory operating parameter storage.
- Local (front panel) or remote (automation port) operating parameter programming.
- Standard “TELCO” and special PBX line card listen-in modes of operation.
- Automatic line card interpretation of Modem, FSK/BFSK, Tone Burst, and DTMF formats.

Inputs/Outputs

Annunciator Output

- “Form C” relay annunciator normally open and normally closed dry contacts rated 24VDC at 1A maximum.

Line Cards/Phones

- Supervised line cards with 0-255 seconds (programmable) fault detection.
- Front mounted, dual-line RJ-11 line card phone jacks.
- 12 line card capacity.
- Line cards (and phone lines) are front panel accessible.
- Line card operating code resides in EPROM and in RAM, controlled by a Mitsubishi 3800 processor. RAM operating code can be downloaded from the master via the SBUS port.
- Four bit DAC line monitoring with a measurement resolution to 1.64 volts over a range of approximately 1.64 to 24.5 volts.
- Optional line monitor disable for CDPD “Cellular” interface.
- Optional “Echo-Cancel” enable via the modem formats triggers echo cancellation in local phone subscriber loops.

Serial Communications Ports

- Two (primary and backup) supervised RS-232C (DB-9M) serial ports (IBM AT compatible). If the primary (computer automation) port fails, information will automatically be sent to the backup port if it has been selected.
- 1K call event buffer (memory) prevents loss of events due to a temporarily disconnected cable or non-responsive device.

Parallel Printer Port

- One supervised “Centronics” type (DB-25F) parallel printer port (IBM AT compatible).
- Printer output can be prefaced with an optional receiver identification string.
- 1K parallel port buffering prevents loss of events due to a temporarily disconnected cable or non-responsive device.
- Backup printer capability available via either serial or parallel port connection.

System Future Expansion Ports

- Dual (primary and secondary) RS-485 type SBUS (DIN9F) future expansion ports.

User Interface

- Phone Line Status** • Three red LED line card indicators show Active/Ring, Fault, and Listen-in status.
- System Status** • Four green LEDs indicate AC Power, System Fault, Operator Logged-In, and Call Pending status.
- Display** • Front panel 4-line by 20-character LCD alphanumeric display provides system status indication.
 - Display back-lighting.
- Touchpad** • Simple, 19-button operating and programming touchpad with visual and audio feedback.

Power Supply

- AC Power** • Switch selectable 120 or 220V (10%), 60 Hz, 100VA AC power supply, fused at 3A.
 - Built-in AC power monitoring with annunciation of fault within 60 sec.
- Backup Battery System** • DC Power Required; 12VDC at 1.75 A maximum.
 - Unit meets UL battery backup requirements using listed external battery backup system.
 - 12VDC, 7 AH, lead acid battery provides a minimum of four hours of backup operation. (Backup battery does not provide standby time required for UL and NFPA standards. A UPS [uninterruptable power supply], listed for Fire Protection Signaling Use, must be utilized when standby power is required.)
 - Built-in backup battery condition monitoring with fault annunciation within 60 sec.
 - Backup battery connection short and reversal protection.

Physical Description

- Color** • Black and silver.
- Dimensions** • 5.25" H x 19" W x 11.5" D.
(13.34 cm H x 48.26 cm W x 29.21 cm D.)
- Weight** • 30 lbs (13.6 kg)
- Other** • Rack mountable, anodized aluminum desktop chassis.
 - "Tool-less" front panel access to all changeable cards.
 - Holds up to 12 line cards.

Environmental

- Operating Temperature** • 32° to 120° F.(0° to 49° C.)
- Storage Temperature** • -4.0° to 158° F. (-20° to 70° C.)
- Maximum Humidity** • 85% non-condensing, non-corrosive
 - Indoor use only

Warranty

Two-year limited warranty

Optional Accessories

	(partial list)
Line Card (ITI 13-417)	Expands phone line capacity (one included with receiver).
Printer (Okidata Microline 320 Turbo, 9-pin)	Provides hardcopy report output.
Backup Battery (Powersonic 1270)	Provides limited AC power failure power backup. (Backup battery does not provide standby time required for UL and NFPA standards. A UPS [uninterruptable power supply], listed for Fire Protection Signaling Use, must be utilized when standby power is required.)

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Ordering Information

ITI Part # 60-766

ITI Document # 466-1338 Rev. A

(Spec Sheets available in quantities of fifty)

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Specifications are subject to change without notice.

