

MLR2-E Receiver Product Line



DRL2E
Digital Receiver Module

- 2 digital lines
- DSP Processing
- Expands MLR2-E to 30 lines
- Flash Memory
- Caller ID
- Two-way voice receiving
- Can be programmed from the CPM2 or PC with console software
- Individual line processing
- DNIS recognition



DRLMX
Mobitex® Receiver Module and
Sure Signal™ Central Station Radio

- 1 Radio Line
- Mobitex® communication
- Interfaces with Sure Signal™ Central Station Radio
- 255 event memory per line
- Expands MLR-MX to 15 lines
- Flash Memory



DVL2A
DVACS® Receiver Module

- DVACS compatible line module
- Higher level of security
- Monitors master leg with carrier detect for phone line trouble
- 255 event memory per line
- Built-in watchdog
- Utilizes MLRX expansion cage



MLR2E-SP
Spare Parts Kit

- CPM2central processor module
- DRL2E2-line digital module
- DML2Ebackplane circuit board
- DML4backplane circuit board
- MCBL.....telephone connection cable
- SER10.....serial computer cable
- CH6UF2power ribbon cable
- CH6UF3data bus ribbon cable



MLRXE
Line-Card Expansion Cage

- 19" Rack Mount
- Holds 2 DRL2E receiver modules or 2 DRLMX modules or 1 DRL2E and 1 DRLMX module



CABINETS
Receiver Cabinets

- SG-MLR2-CSX- 2 line desk mount Non U.L.
- SG-MLR2-CS- 6 line desk mount U.L. listed
- SG-MLR2-CM- 14 line desk mount U.L. listed
- SG-MLR2-CL- 30 line floor mount U.L. listed

Accessories

SG-MLRXP-UL

- Blank plate for SG-MLRXE

Transformer

- 16V 175VA transformer for UL and 30 line applications

PRINTER ACCESSORIES

- SG-DP8340P12VDC Dot Matrix Printer (ULC)
- SG-PCBL10Parallel printer cable
- SG-RIB 1Replacement ribbon for SG-DP8340P printer
- SG-SER 10.....Serial computer cable



Additional Features

- Battery backed up RAM on each DRL2E line card module for programming and event buffering
- Up to 64 different option settings
- Any handshake frequencies by increments of 100 Hz from 300 Hz to 3400 Hz, Dual Tone, SIA FSK, Modem II and ITI selected by configuration commands
- Up to 8 different handshakes per profile
- Programmable serial port configurations
- Switched-negative outputs on CPM2 (special applications)
- AC-loss detection and standby battery supervision
- Low battery detection and automatic low battery disconnect to prevent deep-discharge damage to battery
- Operator Acknowledge option
- Telephone Line Supervision and reporting
- Caller ID, Calling name and DNIS

Communication Formats

- All major ITI formats
- All common pulse formats
- 4/1, 4/2, 4/3 and DTMF formats
- ACRON DTMF format
- Contact ID (DTMF) format
- Adcor 20 baud
- Super Fast or High Speed DTMF format, with or without parity
- FBI Super Fast format with or without parity
- RADIONICS Modem II, Modem IIE, Modem IIIa² and BFSK formats
- SIA format: 110 and 300 baud, tone and data acknowledgement (Level 1, 2, 3, 8, 20)
- SK FSK1, FSK2



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*DVACS is a registered trade mark of Electro Arts Limited and covers a wide variety of products. Full DVACS compatibility applies only when the Sur-Gard equipment is connected to the RS-232 port or a DVACS F1F2-List 3 (or a DVACS F1F2-List 1) subset which is connected to a DVACS Hub-324 (DVACS Hub-308) Card. DVACS is available in Canada only.
The Sure Signal solution utilizes the BellSouth Intelligent Wireless Network in the United States.
Trigee Wireless Inc. is the sole provider of Mobitex technology in Canada.
Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries.



MLR2-E

The Evolution of the Central Station Receiver



A Division of Sur-Gard Security Systems Ltd.

"Meeting the challenges, Sur-Gard introduces the MLR2-E, the evolution in central station receiver design. Featuring increased expandability, greater flexibility and superior signal management..."

Adapting to Change...

As Central Monitoring Stations continue to grow, the ability to adapt by incorporating new technology will be the key to managing a successful operation. Market conditions may vary and depending on the circumstances, physical space may be at a premium and upgrades to automation software must be completed on a regular basis. The new features of the MLR2-E are based upon the understanding that monitoring station environments are always changing and manifesting new needs.

In response to these demands, Sur-Gard introduces the MLR2-E, the evolution in central station receiver design. The MLR2-E provides increased expandability, new features, greater flexibility, superior signal management and is backwards compatible with the MLR2-DG.



The DRL2E

The DRL2E line card is a receiving module for use in the MLR2-E and MLR2 digital receivers. Each DRL2E contains two telephone line inputs and supports multiple communication formats, two-way voice communication and caller identification. One RS232 serial port outputs to a PC for easy programming and option changing.

The CPM2

The CPM2 monitors the operation and performance of every line card. The heartbeat feature provides supervision of the automation software from the CPM2; if your automation system goes off-line, the CPM2 will automatically detect this and go into manual mode. Along with a built-in keypad and LCD display, the CPM2 features one parallel printer port and one RS232 serial computer interface for seamless integration with your automation software.



MLR2-E

Multi-Line Digital Receiver

The MLR2E is packed in a 3U (5 1/4") height eurocard cage for 19" rack mounting. Desktop cases are available as an option.



Features

Additional features of the MLR2-E include: flash memory for easy upgrades and individual line processing. Each line card is hot-swappable and can be programmed via a PC. Digital Signal Processing (DSP) increases recognition accuracy, allowing for greater flexibility when adding new features.

DNIS and Caller ID

The MLR2-E receiver utilizes DNIS* signal management; this feature permits faster response to an incoming call, reducing online time and therefore, provides extensive savings to the central station. Built-in Caller ID allows the operator to trace misprogrammed or malfunctioning diallers, as well as interference.

* Dialed Number Identification System

Profiles

Using DNIS and Caller ID allows the profile to be selected before the call is answered and configures the line card to provide the correct handshake first, saving you on-line time and increasing efficiency – the first handshake is always the correct handshake. Dedicated equipment for specific tasks is no longer needed.

Monitoring

All programming on the MLR2-E can be verified on the LCD display or printed. Printer events, computer events and all caller activity can be displayed and printed for verification. Generous data memory allows for a large event buffer.

Diagnostics

The CPM2 systematically polls each line card and in turn, the line cards supervise the CPM2 polling. Computer verification is tested systematically with heartbeat test signals and during computer outages all information is stored in the event memory. The unit will also monitor printer activity to determine readiness and paper status.

Wireless Communication

For greater receiving capabilities add a Sur-Gard wireless solution-the DRLMX and Sure SignalSM Central Station Radio (CSR). The DRLMX utilizes the intelligent Mobitex[®] wireless network to receive signals at the central monitoring station. Each DRLMX line card contains one radio line and a 255 event memory buffer.

Expansion

Start off with 2 lines, and as your requirements increase, simply add on DRL2E line cards. The MLR2-E can be expanded to a maximum of 30 telephone lines, requiring 15 DRL2E line cards. The DRL2E is backwards compatible; if you wish to expand and already have an MLR2-DG, it is as easy as adding on the new DRL2E module. The system can also be fitted with a variety of Sur-Gard line cards including the DRL2A, the DRLMX (Mobitex[®]) and the DVL2A for DVACS* communication.