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In-Reach 7520



Overview

The In-Reach 7520 (IR-7520) series of highly secure intelligent network element management solutions offers a unique combination of console and alarm management solutions in a single box.

The IR-7520 series of alarm and console management solutions provides total control of a myriad of core communication and network element subsystem devices residing in RBOC, CLEC, ILEC and IXC data center locations.

Data center switches, routers and multiplexers can be connected to the console ports of the IR-7520, allowing configuration and software settings modifications, software upgrades or other routine operations.

In addition, the alarm points can be connected to network element subsystems such as door alarms, UPS and aerial lights to receive discrete signals from normally opened or closed contact closures.

SNMP Compliant

In the event of a device failure, an SNMP trap is sent to the Network Management System (NMS). Based on the type of problem reported by the NMS, the IR-7520 can be used to perform any remedial operations on the faulty device via the command line interface (CLI).

Security

To add to your peace of mind, the IR-7520 with high speed ports (115 Kbps) has a variety of built-in security features such as port level, multi-level password protection, access control lists, RADIUS, PAP and CHAP that are unmatched in the industry.

Further, the IR-7520 is designed to parallel the industry standard Telecommunications Management Network (TMN) architecture.

Higher Port Density

The IR-7520 series offers you a unique and beneficial combination of alarm point and console port standalone models with a wide range of densities in 1U rack mount and 2U enhanced rack mount form factors to suit your varying needs.



Features

- 8 console ports
- 24 alarm points (12 physical ports)
- 1 Ethernet RJ 45 port for network connectivity
- V.90 internal modem (model-specific)
- 1 U rack mount (19"), 2U enhanced rack mount models
- Multi-level, per port password protection
- PPP, PAP, CHAP, RADIUS, ACLs
- AC/DC power options

Applications

- RBOC, cell site, CLEC, CEVs, IXCs, co-location sites, any unmanned site alarm and console management and control of network elements
- Out-of-band management through modem
- Management control through Telnet
- Remote monitoring and control

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In addition, the IR-7520 series of standalone models offers a wide spectrum of models with AC/DC power, modems, flash card and NEBS-compliant combinations.

Alarm and Console Management Operation

The console ports of the IR-7520 are connected to the serial ports of end devices such as routers, switches and SUN servers. Operations such as rebooting, software upgrade and settings modification can be performed via the CLI.

Each physical port of the IR-7520 that is designated as an alarm point represents a pair of scan and distribution points. The scan points accept discrete input signals generated due to the change of state of normally opened or closed contact closure devices such as aerial lights and door alarms. The distribution points send output signals to activate devices such as generators and security alarms in response to any alarm signal received by the scan points. Typical output current levels do not exceed 25 mA at +/- 2.5 Volts (min) or +/- 6 Volts (max).

Out-of-Band Management

Wherever you are, you can be in reach with your network with the IR-7520 by using its extensive out-of-band management features. The IR-7520 models are equipped with a standard Ethernet (RJ 45) port and a modem card that can be used to access the IR-7520 via Telnet, dial-up or the Internet.

Benefits

The comprehensive, flexible and easy-to-use IR-7520 delivers cost savings to the Operations Support System (OSS) group through SNMP-based centralized monitoring and management.

Service and Support

Delivering value added service and support for nearly 20 years, MRV Communications provides worldwide technical assistance through a highly trained team of dedicated corporate and field based engineers as well as through certified channel partners. Whether your needs are for 24x7 dedicated support, same day replacement parts shipment, on-site support or network design and installation related professional services, you'll gain the opportunity to build a responsive and accountable partnership with the MRV service and support experts.

Technical Specifications

| Model Name | IR-7520 |
|--------------------------------------|---|
| Features | |
| No. of Physical Ports | 20 |
| Number of Console Ports | 8 |
| No. of Pairs of Discrete Alarm | |
| Collection Scan Points (Input) / Max | 24 |
| No. of Pairs of Discrete Control | |
| Distribution Points (Output) /Max | 24 |
| Distribution Point (Output) | |
| Current /Max | 25 mA |
| Rack Mount Form Factor | 1U rack mount (19") |
| Port Speeds | 50 bps to 115.2 kbps |
| Power Requirements (DC) | -36 to -72 VDC 3.3A (max) |
| Power Requirements (AC) | 110 – 240 VAC, 50-60 Hz 1.58 A at 110 V (max) 0.85 A at 220 V (max) |
| Physical Dimensions | |
| Height | 4.45 cm/1.75 in |
| Width | 48.26 cm/19 in |
| Depth | 29.71 cm/11.7 in |
| Physical Weight | 3.5 kg/8 lbs |

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Technical Specifications

Common Specifications for all Units

| Parameter | Description |
|--------------------------------------|--|
| Network Interface | Ethernet/IEEE 802.3 AUI (10Base-5) or RJ-45 (10Base-T) |
| Serial Interface | RS-423/232 |
| Base Memory | 4 MB DRAM |
| Expansion Memory | Field upgradeable to 8 MB |
| Memory Card interface | JEIDA/PCMCIA |
| Non-Volatile Storage | 32 KB |
| Network Protocols | TCP/IP, PPP, Telnet, BOOTP/TFTP |
| Security Options | Per port password, multi-level password, RADIUS, access control lists, PAP, CHAP |
| Network Management | SNMP MIB I, MIB II, proprietary MIB extensions, Telnet |
| Environment | |
| Operating Temperature | 32 to 113°F (0 to 45°C) |
| Storage Temperature | -4 to 140°F (-20 to 60°C) |
| Humidity | 10% to 90% non-condensing |
| Diagnostic LEDs | Run, LAN, console, port status, memory card status |
| Emissions/immunity Compliance | |
| Safety Compliance | FCC Part 15, Class B, EN55022, EN55024, EN50082-1 |
| EU Directives | Meets all applicable requirements of current EU directives |
| Telecommunications | NEBS Level 3 compliant (GR-1089-CORE, GR-63-CORE), FCC Part 68, IC CS 03, CTR 21 |
| Warranty | One year |

MRV has more than 50 offices throughout the world. Addresses, phone numbers and fax numbers are listed at www.mrv.com. Please e-mail us at sales@mrv.com or call us for assistance.

MRV Los Angeles
20415 Nordhoff St.
Chatsworth, CA 91311
800-338-5316
818-773-0900

MRV Boston
295 Foster St.
Littleton, MA 01460
800-338-5316
978-952-4700

MRV International
Business Park Moerfelden
Waldeckerstrasse 13
64546 Moerfelden-Walldorf
Germany
Tel. (49) 6105/2070
Fax (49) 6105/207-100

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