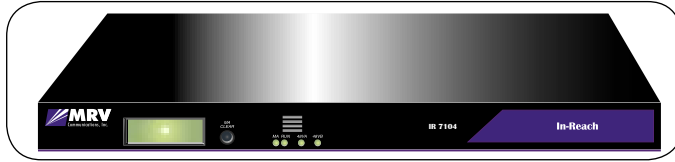




In-Reach 7104 Series



Overview

The In-Reach IR-7104 from MRV Communications is a four-slot modular, expandable, high-density alarm and control concentrator engineered to address the needs of telecommunications network service providers and corporate enterprise facilities.

Space-Efficient Design

The space-efficient design of the IR-7104 requires only 1U of rack height. It is designed to support a family of modules that provide a variety of alarm input and control output functions.

The IR-7104's expandable chassis can be populated with up to 4 high-density modules, each of which can process alarm state information from 32 wet- or dry-contact closure alarm points. A single IR-7104 can manage up to 128 alarm points.

The IR-7104 is ideally suited for wireless cellular sites, public utilities, manufacturing facilities and data centers that employ enclosure door alarms, environmental alarms, power, pressure and fluid alarms.

Distributed Architecture

The distributed architecture of the IR-7104 solution requires an LX Series master unit be connected upstream via an RJ-45/RS-232 serial interface.

The benefit of the distributed master-slave architecture is that it enables the LX Series master and IR-7104 slave units to efficiently manage thousands of alarm points using a single IP address.

Further, master units provide secure remote console management and remote power management of all critical network elements.

Alarm Input Option

The alarm input module contains 32 alarm points that support dry contactor isolated wet contact circuits without the need for hardware configuration changes. The alarm circuits detect the following:

- Normally open (dry contact)
- Normally closed (wet contact)
- Wet contacts with applied voltages in the range of 3.5V to 75VDC
- Closure to V+ TTL level
- Closure to 0 (GND)



Features

- IP-based alarm management
- 4-slot, expandable modular design
- Up to 128 contact-closure alarm inputs
- Up to 32 control outputs
- Distributed master-slave architecture
- Dual-feed -48 VDC-powered models

Applications

- Monitor: Doors, Security, Power, Sensors, Meters, Temperature, and Humidity
- Control: Power, Lighting, Cameras, Air Conditioning, Pumps and Valves



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Control Output Option

8 Form C relay control output points are available on the Control Output option module for enabling a wide range of devices, including backup power generator systems, HVAC systems, emergency lighting systems, control valves, sirens and other devices. Normally open and normally closed contacts are available on each Control Output module.

MegaVision Fault Management System

MegaVision Event Horizon is state-of-the-art fault management system (FMS) software that provides NOC managers with the tools they need to quickly identify and resolve alarm events and fault conditions. Engineered to

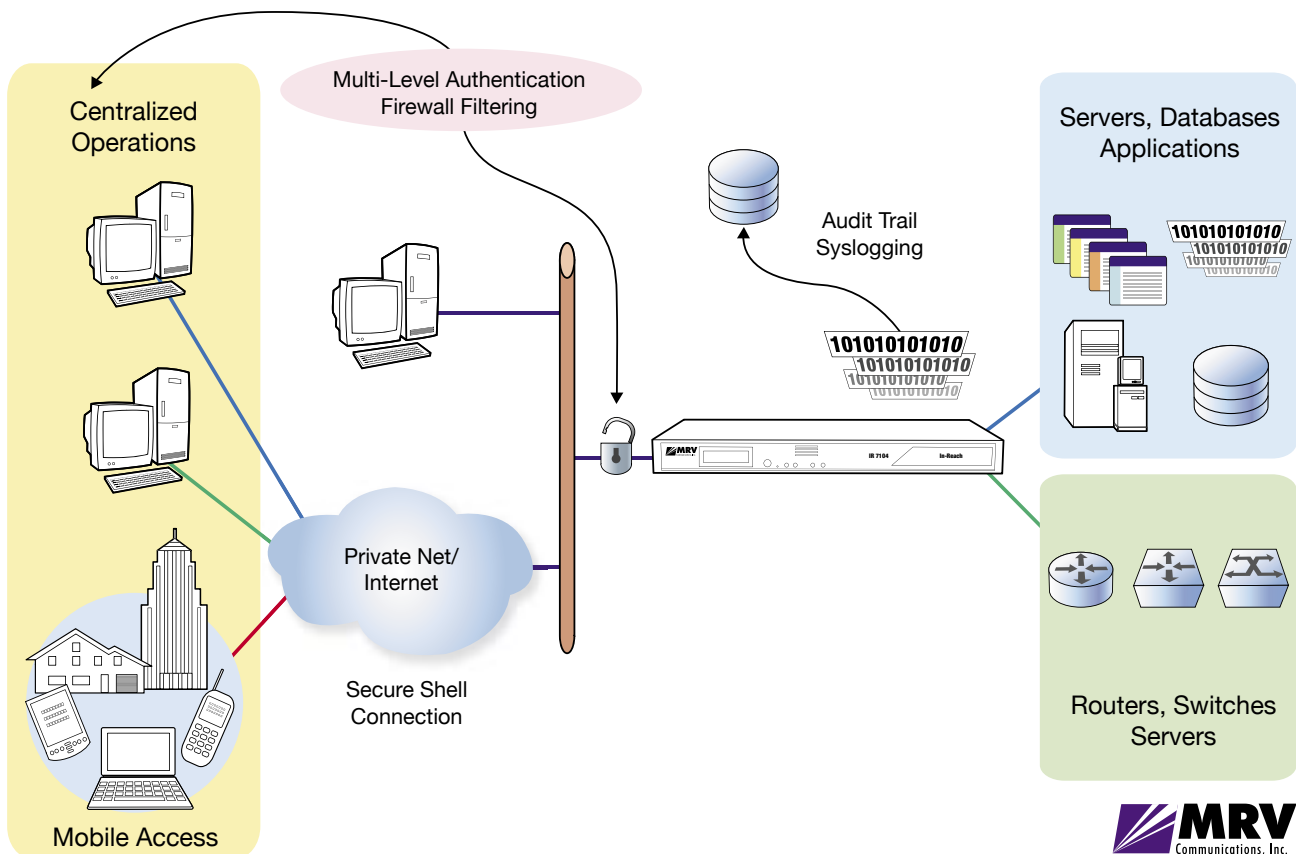
work in concert with our In-Reach series hardware, it provides maximum efficiency and rapid return on investment.

Service and Support

MRV Communications provides worldwide service and support through a highly trained team of dedicated field engineers and channel partners. Service offerings include pre- and post-sales support, 24-hour telephone response, 24-hour parts replacement, on-site technical support, and software and documentation update services.

Secure Console Application

Remotely Provision, Monitor & Control Network Equipment, Servers & Applications





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Technical Specifications

System Features	Dual, isolated -48V inputs	
	Self alarmed to detect:	
	<ul style="list-style-type: none"> • Loss of A or B -48V input • Unit over temperature 	
	LCD to convey detailed alarm status	
	Audible alarm	
	Remote firmware update	
No. of Alarm Inputs	32 per module, up to 4 modules (max. 128)	
	Dry Contact	
	Wet contacts 3.5V to 75VDC	
Connector Type	DIN	
No. of Control Outputs	8 per module, up to 4 modules (max. 32)	
Connector Type	Screw-type terminal	
Current (max. resistive load)	Max switching DC 30V @ 1.0A, 30W	
Connector Type	Screw-type terminal	
Rack Mount Form Factor	19" or 23"1U rack unit	
Power Requirements	DC -48 VDC nominal, -36 VDC to -72 VDC, dual-feed @1A maximum	
Power Consumption	DC: 48W	
Heat Dissipation	DC: 163.6 BTU/hr	
Physical Dimensions	Height: 4.48 cm/1.75 in	Width 44.8 cm/17.48 in
	Depth: 30.0 cm/11.7 in	Physical Weight: 3.62 kg/8.0 lbs
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 Displays	Run, master alarm, LCD status display	
Safety Compliance	UL 1950, third edition; CSA C22.2 No. 950; EN 60950	
Emissions / Immunity Compliance	FCC Part 15, Class A; EN55022; EN55024; EN50082-1	
EU Directives	Meets all applicable requirements of current EU directives	
NEBS Compliance	NEBS-compliant design	
Warranty	Three Year	



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Ordering Information

IRM-7100-001	32-point, Alarm Input Module. For use in IR-7104 Base Unit
IRM-7100-002	8-point, Control Output Module. For use in IR-7104 Base Unit
IRM-7104-000 DC	4-Slot, High-Density Alarm Base Unit, Dual-Source -48VDC. Supports IR-7100 Series Modules.

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