

# GSM/GPRS Serial Console

## LX1004 Series GPRS



### Overview

The latest addition to MRV's out-of-band networking solutions, the MRV LX-1004S GSM/GPRS model delivers wireless connectivity for out-of-band networking. That means instant access from anywhere. Instant access is the next best thing to being there, and with the LX series, it's seamless.

### Feature Highlights

#### Access

- Ethernet or GSM/GPRS modem access
- SSH V1-2, Telnet
- 4 serial ports for console server or alarms/sensor

#### Security

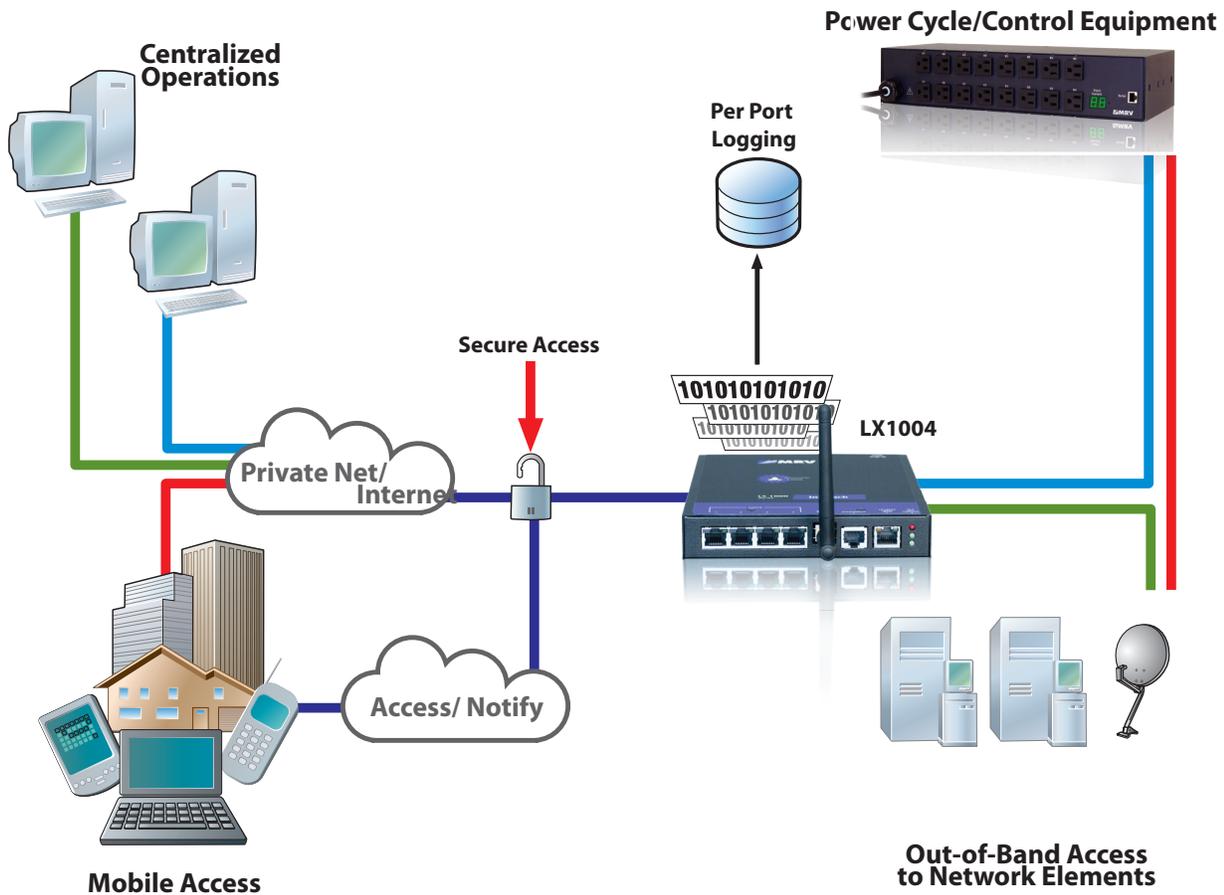
- Local User Database, SecurID, RADIUS, TACACS+, LDAP
- FIPS 140-2 Secured
- SNMP V3 provides encrypted communications
- Many other features, including user authentication, fallback, dialback for interactive and PPP

#### Management

- Easy to use browser based GUI, Industry standard Command Line Interface or SNMP
- Automated enterprise-wide software and configuration updates
- Integrated power and alarm management
- Trigger/Action allows customized event response

### SCADA, Supervisory Control and Data Acquisition

The LX-1004 allows you to gather real-time data and remotely access devices that have sensed an alarm condition. The captured data can be sent back to the central site for analysis and reporting. Easy, quick and economical!



### Coverage

The Geographic coverage – The North American model will cover the United States and Canada. The European model is expected to work in most European countries. We have verified support for Germany, Italy, United Kingdom, and Israel. The GPRS service is being offered by several wireless providers in the US (e.g., T-Mobile and Cingular). European provider coverage is more readily available. You can find the coverage areas for this service by going to the websites of the service providers.

You will need to buy the service contract with your wireless vendor (just as you would for your cell phone). The LX-1004 GSM/GPRS accepts a standard SIM personality module that is provided by your wireless service provider. Very much like a standard Cell Phone, the SIM personality module contains network IDs and service plan information that is preprogrammed by the selected provider. Once a SIM module is obtained from the provider and installed into the LX-1004 only a few simple configuration steps are required to bring the modem on line. To install the SIM module, follow the directions presented in the LX-1000 Getting Started Guide.

### Software

LX Series Software (v.3.6.0 or higher). The LX software that runs on the LX1000, LX4000 and LX8000 series also runs on the LX-1004S GPRS series. The software is designed for applications requiring secure console or serial port management, sensor management and/or power control. It offers the industry's most comprehensive security features, including per port password protection, RADIUS, Secure Shell v2.0, SecurID, TACACS+, PPP PAP / CHAP, PPP dial-back, on-board database and others.

The LX is software upgradeable, offering investment protection with the ability to meet future Out-of-Band Networking needs. The LX Series provides software configurable ports to control a variety of core network, discrete alarm and environmental sensor devices, all with a single box. The LX Series meets today's console, sensor and power management needs with the capacity and scalability to address even the most demanding future needs.

### Ordering Information

#### **LX-1004S-201US**

Console Server with 4 RS232 RJ45 ports with internal GPRS modem (US version) and external AC power supply. Includes software and documentation on CD-ROM and 3-year warranty.

#### **LX-1004S-201EU**

Console Server with 4 RS232 RJ45 ports with internal GPRS modem (European version) and external AC power supply (European version). Includes software and documentation on CD-ROM and 3-year warranty.



## Datasheet

### Technical Specifications

Model Name	LX-1004S-201US	LX-1004S-201EU
No. of Console Ports	4	4
Internal GPRS Modem	GSM: 824-849 MHz 869-894 MHz PCS: 1850-1910 MHz 1930-1990 MHz Theoretical Max Speed: 171.2K Typical Speeds: 57.6K	E-GSM: 880-915 MHz 925-690 MHz DCS: 1710-1785 MHz 1805-1880 MHz Theoretical Max Speed: 171.2K Typical Speeds: 57.6K
No. of Pairs of Discrete Alarms	8	8
No. of Sensor Ports	4	4
Port Speeds	134.5bps - 230Kbps	134.5bps - 230Kbps
<b>Power Requirements</b> (External Power Supply)	100-120VAC; 60Hz; 1.2Amp	100-240VAC; 50Hz; 1.2Amp
<b>Physical Dimensions</b>	Height: 2.8cm (1.1 in) Width: 15.0cm (6.25 in) Depth: 15.9cm (6.25 in)	Height: 2.8cm (1.1 in) Width: 15.0cm (6.25 in) Depth: 15.9cm (6.25 in)
Physical Weight (with Supply)	.9kb / 1.9lbs	.9kb / 1.9lbs
Shipping Weight	1.5kg / 3.2lbs	1.5kg / 3.2lbs
<b>General</b>		
Network Interface	One Ethernet/IEEE 802.3 RJ-45 (10/100 Base-T) port	
Serial Interface	RS-232, Modular RJ-45 Connectors	
Base Memory	8MB Flash, 64MB DRAM	
Network Protocols	RCP/IP, PPP, BOOTP/TFTP, FTP, SNTP, DHCP	
Security	FIPS-140-2 encryption; SSHv2, SNMPV3 (V. 3.6.0 and higher)	

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