

LM80

Remote Environment Management



ADVANCED OUT-OF-BAND MANAGEMENT

LANTRONIX
Connectivity Services

LM80 is Compact Advanced Out-of-Band Management for a Resilient Edge

The Lantronix LM80 is a compact platform designed to act independently from the network to remotely monitor, manage and control up to eight devices including a managed power supply.

The LM Series

An advanced out-of-band solution that provides access, monitoring and control of network infrastructure that operates whether the network is up or down.

- **Secure** | The LM Series are closed appliances, meaning the underlying OS is locked down. We work with your TACACS/Radius and have several options for secure connections.
- **Automated** | Detect, analyze and take data-driven runbook actions rapidly and automatically
- **Resilient** | If the primary network link goes down, the LM Series can fail-over site traffic to the out-of-band connection. With automated testing of out-of-band links and LM "heartbeats," Lantronix ensures out-of-band is available when you need it.
- **Compact** | Smaller version of the Lantronix LM83X is well-suited for deployments that have physical space limitations, or in non-racked environments.

Zero Touch Deployment

New, factory fresh LM Series appliances can use DHCP and/or DNS to automatically find and register themselves with the Lantronix Control Center (LCC), allowing network engineers to easily provision them via the LCC, eliminating the need to stage configurations or send technical personal to remote sites for deployment purposes.

Automatic Configuration of NTP and DNS Servers via DHCP

Primary and secondary NTP and DNS servers are automatically set per those delivered in a DHCP Offer if NTP and DNS servers are not already configured. Any NTP and DNS servers configured via the CLI or the UCC will override server information delivered via DHCP.

Automatically Detect and Configure Internal Modems

An internal modem is automatically detected and configured if one is present – this includes setting the modem make, model and serial bit rate for all internal modems. PPP settings will be automatically configured for the case of a cellular modem.

Lantronix Software Services

Control Center - enables advanced out-of-band management by providing a centralized point of control for all LM Series appliances and managed devices deployed throughout your distributed IT environment. <https://www.lantronix.com/products/control-center/>

Connectivity Services - North American and global cellular data plans and VPN security with an easy-to-use cloud platform to manage your SIMs and services. <https://www.lantronix.com/connectivity-services/>



Perfect For:



Data Center



Branch Office



Remote Sites

LM Series Highlights

- Network Independent Management
- Patented Automated Actions
- Flexible, Secure Remote Access

Key Remote Management Features and Capabilities

Feature	Capability
Access	
Heterogeneous Device Access	Secure remote access and native support for any console-managed device
Secure Remote Access	Provides access via Secure Shell (SSHv2), integrates with remote authentication and accounting such as TACACS and Radius. Supports additional security features such as source address (IP and caller ID) filtering
Out-of-Band Connectivity with Network Failover	Options for POTS lines, cellular modems, fiber, DSL, and satellite. Supports dial-in/ PPP dial-out (with VPN support) via optional external, Iridium modems. Out-of-band connection can be used for primary network failover. Customizable rules can change device configurations during failover and return to previous config when the primary network is available again.
In-depth Device Monitoring	Leverage serial connection to managed device to collect data, either in-band or out-of-band, on hundreds of performance variables every 5 to 30 seconds
Control	
Heterogeneous Device Management	Advanced driver support for remotely managing Cisco, Nortel, 3COM, Juniper, Alcatel, NetScreen, and Tasman routers, switches, and firewalls; TippingPoint intrusion prevention systems (IPS); Garmin GPS devices; Comtech, ND SatCom, and iDirect satellite modems; Iridium and GlobalStar external modems; Solaris, Linux and Windows servers (console port); APC, ServerTech, and Baytech power controllers
Robust Automation	Provides automation of routine management tasks through rule-based engine. Includes diagnosis of non-standard operational state based on configurable thresholds, and execution of recovery procedure to restore normal operational state. Can be used to restore a last known good configuration, diagnose and correct failures across multiple devices, and notify IT staff of the problem and recovery action taken.
Proactive Maintenance	Supports OS upgrade with verification and locally archives OS images with full rollback support. Power-On-Self-Test (POST) data and diagnosis data (e.g. – Cisco "show tech"). Enables password recovery for certain devices through combination of device boot and power management procedures
Remote Power Management	Monitors power utilization and controls power to remotely restart a managed device
Device Recovery with SurgicalRollback™	If a configuration change fails, immediately rolls the device back to the last known good configuration; supports full commit and rollback operations
Real-Time Log Inspection & Management	Collects and inspects device console data in real-time; Sends alarm or takes predefined recovery action based specific log messages to shorten MTTR
Service Level Verification	Uses synthetic transactions to regularly collect network- and application-specific performance data. LM-Series devices locally correlate service-level data with infrastructure performance data to triangulate, pinpoint and correct service-related problems
Enforce	
FIPS 140-2 Level 2	LM-Series software is FIPS 140-2 certified. The hardware is in-process for FIPS 140-2 Level 2 certification.
Session Management	Automates session management to prevent unauthorized access
Granular Authorization	Ensures the right users have the right access by enforcing role-based, command-level authorization
Complete Logging	Audits all user access, device changes, and session activity for compliance

SYSTEM SPECIFICATIONS

System

- Management interfaces: Supports up to 8 devices via serial (RS-232); Two 10/100/1000 BaseT Ethernet interfaces (with failover support) and one RS-232 console port; One 1-Gbps SFP port
- On-board storage: 256GB NVMe supporting TCG Opal 2.0, 256-bit AES encryption
- Peripheral connectivity: One USB-A port, one USB-C port
- One option slot (RS232; V.92, cellular, and fiber cards available)

Dimensions and Weight

- Height, Width, Depth: 43 mm (1.7 in.) x 254 mm (10 in.) x 163 mm (6.4 in.); 1 rack unit (1RU)
- Weight: 1.2 kg (1.7 lbs.)

Operating Environment

- Power Supply: Internal universal power (100-240 VAC, 50/60 Hz); 30W
- Operating: 0° C to 45° C (32° F to 113° F) at mean sea level, 20% to 80% relative humidity, non-condensing
- Non-operating: -30° C to 60° C (-22° F to 140° F) at mean sea level, 90% relative humidity, non-condensing

Regulatory

- Emissions: FCC class A, CE, TUV
- RoHS Compliant

Product SKU

Part Number	Description
Product	
80-8S-NNN-NAA	LM80, 8 serial ports, AC power
80-8S-NNN-YAA	LM80, 8 serial ports, FIPS certified, AC power
Option Cards	
88-CAT4ATTA	US LTE CAT 4 Internal modem for AT&T
88-CAT4EUA	LTE CAT4 EU/UK/AUS/NZ
88-CAT4GLOBAL	LTE CAT4 GLOBAL
88-CAT4VA	LTE CAT 4 for Verizon
88-CATM1ATTA	LTE CAT M1 for AT&T
88-CATM1VA	LTE CAT M1 for Verizon
88-FIBERMMA	Fiber-E Module, w/Multi-Mode Fiber SFP
88-FIBERMMSA	Fiber-E Module, w/Single-Mode Fiber SFP
88-FIBERSMA	Fiber-E Carrier, w/o SFP
88-HSPA+A	Penta-band HSPA+
88-RS232A	RS232 Module
88-V92A	V.92 WW Modem Module