

LES1700 Series Console Servers



LES1708A



LES1716A



LES1732A



LES1748A

OVERVIEW

The LES1700 Series Secure Serial Console Servers simplify out-of-band management for your network infrastructure in data centers and remote sites.

Use the console servers for secure out-of-band access to routers, switches, PDUs, firewalls and other serial consoles. These console servers give you visibility and control of your network and its physical environment for reliable 24/7 uptime. They provide serial console-port connectivity and support environmental monitoring, power management, plus remote site storage of off-line logs.

Out-of-band management enables remote setup, ongoing maintenance and disaster recovery of mission-critical IT infrastructure, even when the network is down. The LES1700 series features 8-48 port console servers with software selectable pinouts. Gain immediate access to consoles via your preferred SSH client or integrated HTTPS AJAX web terminal. Monitor and log systems health and the physical environmental conditions for audit trail and forensics. Monitor and control UPS and power status. Alert operators and undertake per-set complex actions depending on what is detected. Embedded POTS modem connections provide technician access and complete independence from infrastructure faults.

FEATURES

- ◆ 8 to 48 port serial (RS-232) console server models with software-selectable pinouts
- ◆ Integrated USB console ports provide connectivity to next generation infrastructure devices
- ◆ Dual network connections with built-in Fiber SFPs ports and GbE copper
- ◆ PSTN module for remote OOB access during primary outage
- ◆ Built-in ZTP for automated provisioning of configuration, reducing errors and saving time
- ◆ Built-in LLDP to discover, identify and verify attached devices
- ◆ Embedded 802.11 a/b/g/n Wi-Fi1
- ◆ Enterprise-grade security, FIPS 140-2 validated encryption, AAA including LDAPS & TACACS+, lock down ports per-user and group
- ◆ Audit trail logging to 16 GB local storage or remote log server, expandable with SD card

BENEFITS

- ◆ Minimize MTTR and increase MTBF. Proactive problem identification, quick notification and automated remediation reduce operating and downtime costs
- ◆ Ensure uninterrupted availability. Transparent automatic failover and always-on OOB access keep the business up and running
- ◆ Leverage existing tools and workflow. Integrates with standard management tools and existing infrastructure

LES1700 Series Console Servers Data Sheet

SPECIFICATIONS

Console Specifications	
Console Ports	LES1708A: (8) RJ-45 RS-232 software-selectable console ports; LES1716A: (16) RJ-45 RS-232 software-selectable console ports; LES1732A: (32) RJ-45 RS-232 software-selectable console ports; LES1748A: (48) RJ-45 RS-232 software-selectable console ports
Interface	
Ethernet Ports	(2) 10-/100-/1000-Mbps Ethernet/SFP fiber ports with 1500 VAC isolation and ESD protection
Console Port	(1) RJ-45 RS-232 console port
WiFi	802.11 a/b/g/n, AP or Client mode, Infrastructure or AD-hoc,WEP, WPA-PSK, WPA2-PSK, WPA-None, WPA-PEAP-MSCHAPv2 Encryption: TKIP, AES
PSTN Modem	(1) internal V.92 modem with RJ-11 socket
Serial Ports	Software-selectable, 50 to 230,400 bps
USB	(2) USB 3.0 ports for increased storage
Remote Access	Integrated V.92 PSTN dial-in, dual Ethernet, aggregation and redundancy, remote access automatic network failover, easy browser UI IPv6
Console Management	Built-in web terminal, SSH direct to consoles, optional console keystroke logging, alert on cable disconnects, text pattern match and more, inline power control, multiple concurrent sessions
Power Requirements	
Dual AC	Dual socket, universal 100–240 VAC
Power Consumption	Less than 30 W
Physical	
Dimensions	1.75"H x 17"W x 10"D (4.5 x 44 x 25.4 cm)
Weight	10 lb. (4.5 kg)
Form Factor	1 RU
Memory and CPU	
CPU	1 GHz ARM SoC (Marvell 88F6283)
Memory	256 MB DDR2 SDRAM; 64 MB Embedded NOR Flash
Internal Storage	16 GB
Environmental	
Operating Temperature	41 to 122° F (5 to 40° C)
Storage Temperature	-20 to +140° F (-30 to +60° C)
Humidity	5 to 90%
Environmental Monitoring	Serial EMD5000 to support physical, smoke, water leak and vibration sensors
Security, Encryption and Authentication	SSH; FIPS-140-2 compliant Open SSL Module; Strong ciphers—AES encryption; Cisco-compatible IPsec; AAA—TACACS+, RADIUS, Active Directory/OpenLDAP, Kerberos, with local fallback; Two factor authentication via remote AAA; Configurable stateful firewall; OpenVPN

SPECIFICATIONS (CONTINUED)

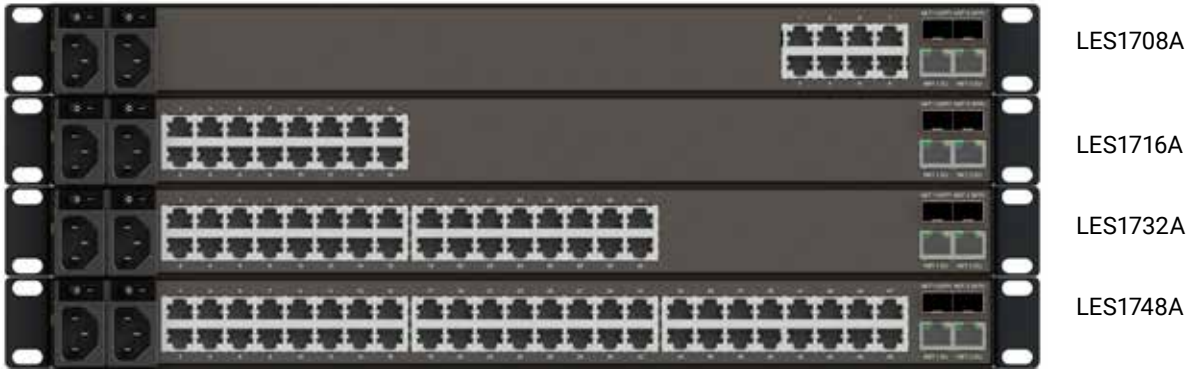
Automation and Scalability	ZTP, Virtual Central Management System (VCMS); RESTful API, programmable and extensible; Auto-Response, SNMP, LLDP, NTP
Certifications	
Emissions	FCC Part 15 Subpart B Class A; ICES-003 Issue 4 February 2004; AS/NZS CISPR 22: 2004 Class A; EN 55022 Emissions Class A (2009) A1 (2010); EN 61000-3-2 Harmonics Current Emissions (2014); EN 61000-3-3 Voltage Fluctuation and Flicker (2013)
Immunity	EN 55024 ITE Immunity (2010); IEC 61000-4-2 (2008); IEC 61000-4-3 (2006) A1 (2007) A2 (2010); IEC 61000-4-4 (2012); IEC 61000-4-5 (2014); IEC 61000-4-6 (2013); IEC 61000-4-8 (2009); IEC 61000-4-11 (2004)
Other Agency Approvals	CE, UL 1950, TUV, C-Tick, RoHS compliant, Security features to support NERC CIP standards, FIPS 140-2 validated module Certificate #2473, CCC
MTBF	150,000 hours

WHAT'S INCLUDED

- ◆ (1) LES1708A, LES1716A, LES1732A or LES1748A Console Server
- ◆ (1) Rackmount kit: (2) brackets, (6) Screws
- ◆ (2) Power cords
- ◆ (2) 6-ft. (1.8-m) CAT5 patch cables
- ◆ (4) DB9F to RJ-45 adapters
- ◆ (2) DB9M to RJ-45 adapters
- ◆ (2) Loopback connectors RJ-45
- ◆ (1) Wi-Fi SMA Antenna
- ◆ (1) Quick Start Guide

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LES1700 SERIES MODELS ARE SHOWN BELOW



ORDERING INFORMATION

Item	Code
LES1700 Series Console Servers	
V.92, WiFi Modems	
8 ports	LES1708A
16 ports	LES1716A
32 ports	LES1732A
48 ports	LES1748A

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