Advanced Modular Console Manager

# **FUTURE PROOF YOUR** SECURE OUT-OF-BAND **MANAGEMENT SOLUTION** WITH SCALABILITY AND **FLEXIBILITY**

The Lantronix<sup>®</sup> SLC<sup>™</sup> 8000 advanced console manager is the industry's first modular console server that provides secure remote access to IT equipment while reducing deployment costs and time.

### **Centrally Manage, Monitor, and Troubleshoot**



#### **Modular Design**



The modular design of SLC 8000 allows users to keep the main unit and simply add or swap modules to expand the number of device ports, upgrade from a single power supply to

dual, and easily introduce new serial interfaces such as USB to support a combination of existing and new IT equipment that are connected. This reduces the time required to develop and deploy new services, and this flexibility



minimizes capital expenditures while offering easy scalability and upgrades.

### **Integrated Security**

Protecting IT resources is a top priority. The SLC 8000 provides security features such as SSL and SSH for data encryption in addition to remote authentication for integration with other systems already in place. For added protection, the SLC 8000 also includes firewall features to reject connection attempts or block ports and has NISTcertified AES encryption.



## SLC™ 8000 Highlights:

- Reduces downtime and increases efficiency with anytime and anywhere access to IT equipment
- Increases testing productivity as a DUT aggregator for automated tests and diagnostic data collection
- Reduces operating costs and security risks by eliminating the need for onsite interventions
- Enables "mix-and-match" with USB I/O modules
- Minimizes cable clutter with softwarereversible device port pins



- Integrates with the Lantronix® vSLM™ central management solution
- Simplifies service deployments with the modular design's quick expansion and customization

1	Available I/O Configurations				
Model	Ports	Final Configuration			
Standard	8	1357			
Standard	16	1 3 5 7 9 11 13 15 2 4 6 8 10 12 14 16			
Customized	24	1 3 5 7 2 4 6 8 2 4 6 8 20 12 14 16			
Standard	32	1 3 5 7 9 11 13 15 1 3 5 7 9 11 13 15 2 4 6 8 10 12 14 16 2 4 6 8 10 12 14 16			
Customized	22	1 3 5 7 9 11 13 15 2 4 6 8 10 12 14 16 2 4 6 8 10 12 14 16			
Customized	40	1 3 5 7 9 11 13 15 7 9 11 13 15 2 4 6 8 10 12 14 16			
Standard	48	1 3 5 7 9 11 13 15 1 3 5 7 9 11 13 15 1 3 5 7 9 11 13 15 2 4 6 8 10 12 14 16 2 4 6 8 10 12 14 16			
Customized		1 3 5 7 9 11 13 15 1 3 5 7 9 11 13 15 1 3 5 7 9 11 13 15 2 4 6 8 10 12 14 16 2 4 6 8 10 12 14 16			
Customized		1 3 5 7 9 11 13 15 2 4 6 8 10 12 14 15 2 4 6 8 10 12 14 15			
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#### Features and Specifications

- Accessibility
  In-Band (10/100/1000 Base Ethernet) Dual Ethernet ports with bonding
  - Out-of-Band (Local terminal, Internal Modem or USB Modem)

#### > Security and Authentication

- Secure Shell (SSH v1, v2, Public Key)
- Secure Sockets Layer (SSL v3, TLS v1)
- Packet filtering (firewall)
- Per port user permissions
- Configurable user rights and custom groups
- Remote authentication: LDAP, RADIUS, Kerberos, TACACS+, Active Directory, NIS
- Local username/password

#### > Serial Device Port Access

- Software reversible device port pins
- Telnet/SSH to SLC command line
- Telnet/SSH/RAW-TCP direct to IP address and port number
- Web Telnet/SSH
- Multiple concurrent Telnet/SSH sessions
- Simultaneous access on the same port
- No inadvertent "breaks" Sun break-safe
- Customizable multi-level user menus
- USB modem access
- Automatic port-initiated connections to network host or neighboring port
- Enable terminal login on any device port
- SD card and USB

#### > Data Capture and Notification

- Port buffering—256 KB per port
- Port logging to local files, syslog, USB thumb drive, SD card, and NFS share
- NFS files (simultaneous)
- System event logs
- Console event notification via email
- Event string recognition (RegExp)

#### > Management

- Front panel keypad and LCD display for network setup
- Quick setup and configuration web interface (SSL)
- CLI setup script
- Command line interface (Telnet, SSH, Web Telnet/SSH or direct serial)
- SNMP (MIB II) compatible v1, v2, v3, custom MIB's
- Integrated power management support Lantronix® SLP™ and Server Technology PDU
- Integrated support for Sensorsoft devices
- Diagnostics and port status counters
  - Performance monitoring utility
  - Packet generation utility
  - Network trace utility
  - Configuration audit log
- Local subnet search for other SLC's
- Maximum of 352 concurrent users and maximum 10 users per device port at 9600 baud rate (typical)

#### > Additional Protocols Supported

- DHCP and BOOTP for dynamic IP address assignment
- NTP for time synchronization
- FTP, TFTP, SFTP, SCP client for file transfers
- DNS for text-to-IP address name resolution
- SSH, SSL, Telnet and UDP, PPP with PAP/CHAP, NFS and CIFS for connections in and out of the SLC
- IPsec/VPN
- RIP and RIPv2

#### > Interfaces

- Network: Dual 10/100/1000 Base-T RJ45 Ethernet
- Devices: 8, 16, 32, 48 RS-232 (RJ45), 300 to 230400 bps
- Console: RS-232 (RJ45), 300 to 230400 bps
- USB 2.0 High Speed, Full Speed, Low Speed
- SD card slot: SD and SDHC

#### > Operating System

Embedded Linux

#### > Power Requirements

- AC model input (single or dual): 100-240 VAC, 50 to 60 Hz
- DC model input (dual): -20 to -72 VDC
- Power consumption: Less than 30W

• FCC Part 15, CE (EN55022, EN55024, EN60950), CSA,

VCCI, UL/CUL, C-Tick, CB Scheme, NIST-certified implementation of AES (Advanced Encryption Standards) as specified by FIPS-197, IPv6 Ready, FIPS 140-2 (pending)

#### > Central Management

• Compatible with Lantronix' vSLM central management software

#### > Environmental

- $\bullet$  Operating: 0 to 50° C (32 to 122° F), 30 to 90%RH, non-condensing
- Storage: -20 to 80° C (-4 to 176° F), 10 to 90%RH, non-condensing
- Heat flow rate: 68 BTU per hour

#### > Physical

- Front-mid-rear mounting brackets
- Dimensions (L x W x H): 30.5 x 43.8 x 4.4 cm (12 x 17.25 x 1.75 in), 1U
- Weight: 11.1 lbs. maximum, depending on option
- Shipping weight: 15.1 lbs. maximum, depending on option

#### > Warranty

• 3 year limited warranty



## **Ordering Information**

> Name	> Ports	> Power Supply	> Part Number
SLC 8000 Advanced Console Manager	8	Single AC Supply	SLC80081201S
	8	Dual AC Supply	SLC80082201S
		Single AC Supply	SLC80161201S
	16	Dual AC Supply	SLC80162201S
		Dual DC Supply	SLC80162401S*
	32	Single AC Supply	SLC80321201S
		Dual AC Supply	SLC80322201S
		Dual DC Supply	SLC80322401S*
	48	Single AC Supply	SLC80481201S
	40	Dual AC Supply	SLC80482201S
		Dual DC Supply	SLC80482401S*

\*DC Supply Models Soon to be Available

> Accessories	> Part Number	> Description					
Field Replaceable SLC 8000 Modules (More Modules to be Released)							
Device Port Module	FRRJ451601	16 Device Port RJ45 I/O Module					
Power Supply Module	FR1ACPS01	100-240 VAC, Single Supply Module					
Power Supply Module	FR2ACPS01	100-240 VAC, Dual Supply Module					
	Supplemental P	roducts for SLC 8000					
Internal Modem	56KINTMODEM-01	56K v.92 Internal Modem - for dial-up out-of-band connectivity					
PremierWave XC HSPA+ PXC2102H2-01-S		3.5G cellular out-of-band connectivity intelligent gateway (Wireless data plan sold separately)					
PremierWave XN PXN210002-01U		802.11a/b/g/n Dual Band Wi-Fi Device Server					

















