

## LX Series

### Out-of-band networking

Our LX Series provides IT administrators with the ability to perform secure remote management of network infrastructures with an advanced out-of-band networking solution. Network infrastructures utilized in data centers, remote sites and test labs can be managed simply and effectively, reducing operational costs.



Our LX Series is a family of secure communication servers designed for applications requiring console or serial port management. The LX Series enables administrators to securely manage and configure remote network devices and servers. This simplifies operations and removes the need for personnel to be physically present at remote equipment sites. The LX Series provides a rich set of security capabilities meeting industry standards. For government focused customers and applications an optional version is available which meets the demanding US government FIPS 140-2 cryptographic security standard. The LX-4000T Series can meet a wide range of needs including dial-up access as well as sensor and alarm management. Sophisticated trigger/action control can be used for customizing notification and control needs. Our LX Series provides an intuitive web-based graphical user interface (GUI) and an extensive command line interface. What's more, it also provides the ability to define subscriber based menus greatly easing navigation to common features and tasks. Our LX Series delivers the most secure and rich set of features.



### Your benefits

- ✓ **Lower costs**  
Nearly eliminates the need for personnel to be physically present at remote equipment site
- ✓ **Industry-leading security**  
Comprehensive set of features, including per-port access protection, RADIUS, Secure Shell v2.0 and PPP dial-back, meeting security best practice across all industries
- ✓ **Reduced risk**  
Capture logs as a record of system activity to meet regulations such as Sarbanes-Oxley and HIPAA
- ✓ **Improved service levels**  
More efficient use of resources, reducing the need for redundant equipment by minimizing downtime
- ✓ **Total protection**  
With a comprehensive set of security features, covers all operating environments and meets security best practice across all industries
- ✓ **Easy, powerful management tools**  
Simplified event notification and response; automatic response to an emergency increases safety and helps avoid potentially hazardous conditions

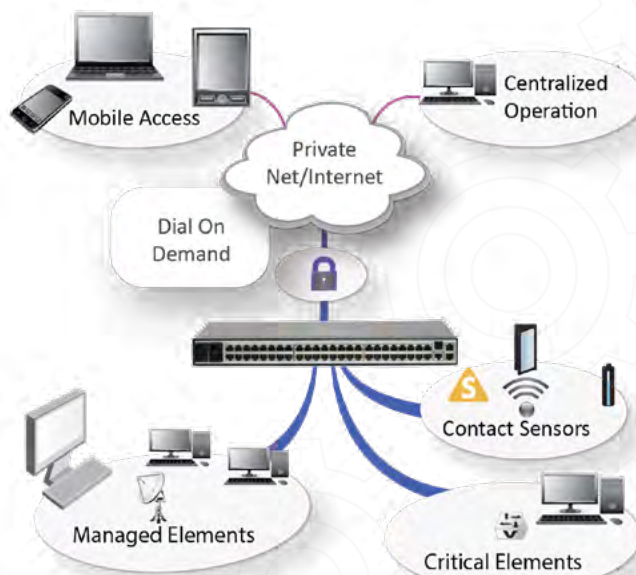
## LX Series at a glance

	Product	Key applications and features
	LX-1004T	Ultra-compact solution for out-of-band management of network infrastructure with up to 4 devices. AC power supply. Optional V.92 modem
	LX-4000T Series	Compact solution for out-of-band management of network infrastructure with up to 48 devices. Product variants with single or dual AC power supply and 8, 16, 32 or 48 ports. Optional V.92 modem and FIPs security

## Applications in your network

### Complete out-of-band networking solution for secure console or serial port management

- Enterprise datacenters
- Remote/branch offices
- Telco central office and remote facilities
- Utilities
- Test and development labs



For more information please visit us at [www.advaoptical.com](http://www.advaoptical.com)  
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Product specifications are subject to change without notice or obligation.

**ADVA**<sup>TM</sup>  
Optical Networking

	LX-1004T	LX-4000T
<b>Size (WxHxD)</b>	15.0cm x 2.8cm x 15.8cm / 5.9in x 1.1in x 6.2in	44.4cm x 4.3cm x 25.4cm / 17.5in x 1.7in x 10in 19in, 1RU
<b>Power</b>	Single AC power supply	Single or dual AC or DC power supplies
<b>Number of serial ports</b>	4 ports plus 1 dedicated diag/mgmt. port	8, 16, 32 or 48 ports plus 1 dedicated diag/mgmt. port
<b>Internal modem option</b>	V.92	V.92
<b>Network interface</b>	1x Ethernet RJ-45 10/100Base-T port	2x Ethernet RJ-45 10/100Base-T ports
<b>Serial interface</b>	RS-232, RJ-45	RS-232, RJ-45
<b>Sensor inputs per port</b>	2	2
<b>Control outputs per port</b>	2	2
<b>Port speeds</b>	134bit/s to 230.4Kbit/s	134bit/s to 230.4Kbit/s
<b>Base memory</b>	16Mbit Flash, 128Mbit SDRAM	16Mbit Flash, 128Mbit SDRAM

## Certifications

### Emissions / immunity

- ETSI EN300/386 V1.6.1
- EN 55032:2012 Class A
- + EN 61000-3-2:2006/A1:2009/A2:2009
- + EN 61000-3-3:2013
- ICES-003 issue 5
- FCC Part 15 Subpart B Class A

### Safety

- LX-4000T and LX-1004T
  - UL 62368-1:2014 Ed. 2
  - CSA C22.2#62368-1:2014 Ed. 2
  - IEC 62368-1:2014
- LX-4000T
  - UL 60950-1 Ed.2 /A2:2014
  - CSA C22.2#60950-1 Ed.2/A1:2011/A2:2014
  - IEC 60950-1:2005/A2:2013

### Telecommunications (LX-4000T)

- GR-1089-Core Issue 6, GR-63-Core Issue 4
- NEBS Level 3, AT&T TP-76200 Issue 19
- R&TTE
- TBR21 (Jan 1998)

### Declarations

- CE
- RCM

### Environmental

- RoHS Directive 2011/65/EU
- RoHS 6/6 compliant
- REACH (EC No 1907/2006)

### Security

- FIPS 140-2 (ordering option for LX-4000T)

### Environmental

- Operating temperature:
  - Long term: 0 to 40 °C (32 to 104 °F)
  - Short term: -5 to 50 °C (23 to 122 °F) (LX-4000T DC units)
- Storage temperature: -40 to 85 °C (-40 to 185 °F)
- Humidity:
  - 5% to 85% long term
  - 5% to 90% short term (LX-4000T DC units)

### Power and heat dissipation:

- LX-4000T:
  - Single or dual power supplies
  - 120-240VAC, 50/60Hz: 0,5A per system
  - 36-72VDC dual feed: 0,75A per system
  - Heat dissipation: min. 8.6W (30 BTU/hr); max. 21W (72 BTU/hr)
- LX-1004T:
  - 120-240VAC, 47/63Hz: 0,1A per system
  - Heat dissipation: 2.5W (8.7 BTU/hr) max.

### Shipping weight

- LX-4000T: 5.67Kg (12.5lbs)
- LX-1004T: 1.34Kg (2.95lbs)