

## LPA816e Lightpath Director

### *Intelligent Lightpath Crossconnect*

The BigBangwidth LPA816e Lightpath Director is a remote controllable intelligent lightpath crossconnect that works stand-alone, or as a component of the BigBangwidth Lightpath Accelerator™ System. The LPA816e features 16 pluggable ports that accept a variety of SFP transceiver modules.



*BigBangwidth LPA816e*

### **Part of the BigBangwidth Lightpath Accelerator System**

The BigBangwidth LPA816e is a member of BigBangwidth's Lightpath Accelerator family of products, and can be combined with other BigBangwidth electronic or all-optical lightpath directors such as the all-optical LPA306.

Get fully-automated lightpath management in response to network traffic by adding Lightpath Accelerator Host Software. The system “just works” with no user training or application integration required, providing vastly improved bandwidth, *zero* packet switching latency and jitter, and the security of private links. Automated lightpath routing is a standard feature.

### **Works with CANARIE UCLP**

When the LPA816e is used as a component of the BigBangwidth Lightpath Accelerator System, long-haul lightpaths through CANARIE UCLP are supported automatically. Lightpath Accelerator with UCLP enables national or international high-quality connections for fast data transfer, immersive video, medical applications, and other advanced applications that are not practical through ordinary packet-switched networks.

### **Also Works Stand-alone!**

The LPA816e can be used as a stand-alone lightpath crossconnect. The built-in command line can be manually controlled via telnet or the serial port, or automatically controlled from a script.

# Protocol Independent

The LPA816e supports Gigabit Ethernet with SX, LX, ZX or WDM (“colored”) small form-factor pluggable SFP optical transceiver modules, or TX copper SFP modules. The LPA816e also supports 1 and 2 Gb/s Fibre Channel with a choice of optical transceiver modules. The transceiver module type used in each port is independent, so you can mix and match as needed.

# Simplifies Network Design

Installing a lightpath network can be complicated if new fiber cable needs to be pulled into buildings. The LPA816e makes it easy to use existing unused cable of almost any type because it can convert between cable types, and amplify weak signals.

## Media Conversion

The LPA816e can switch Gigabit Ethernet and Fibre Channel signals between multimode and singlemode fiber, eliminating the need for an external media converter device. The LPA816e can also convert between copper and fiber Ethernet media, for example by switching a TX copper GigE signal on to an LX fiber lightpath.

## Signal Amplification

Signal level lost to long fiber runs or poor connections can be regenerated by the SFP transceiver modules when a lightpath passes through the LPA816e.

# Technical Specifications – LPA816e Lightpath Director

Data Ports	16 ports, suitable for many supported MSA-compliant SFP transceiver modules
Network Control Port	1 RJ-45 IEEE 802.3 Ethernet 10BaseT
Serial Control Port	DB-9 RS-232 at 111,200 Kb/s
Control Interface	Command line interface available via direct serial or network telnet
Lightpath Accelerator control	Includes BLP protocol used by BigBangwidth Lightpath Accelerator System
Power Consumption	25W at 110 V
Front Panel LEDs	LEDs for power and control activity. Per-port LEDs show SFP presence and link.
LCD Display	2 lines 16 characters, user programmable via Command Line Interface
Weight	7 Kg (15.3 lbs)
Dimensions	1.72” x 16.72” x 15” (4.4 x 42.5 x 23.1 cm) fits standard 19” rack

