

# INTELLAPATCH™ 16 Physical Layer Switch

The APCON INTELLAPATCH 16 physical layer switch enables efficient, cost-saving management at layer 1, the foundation of every enterprise network or interoperability test lab. Wire-once technology, plus easy-to-use, efficient software, allow IT and test lab personnel to use the INTELLAPATCH 16 to automate, control, and manage their networks with increased efficiency and cost effectiveness.

With a compact, modular design that saves valuable rack space, the INTELLAPATCH 16 provides up to 16 ports of any-to-any connectivity, always at full wire speed. The 1U chassis can be populated with any blade option in the INTELLAPATCH family, including 1, 2, 4 and 10 Gb/s Fibre Channel, Ethernet from 10 Mb/s to 10 Gb/s, T1/E1/J1, DS3/E3/STS-1, SONET/SDH, and FDDI.

Each INTELLAPATCH 16 physical layer switch will control up to 16 independent fiber-optic or copper ports, with the ability to automate connections between any port and any other port. The INTELLAPATCH provides easy-to-use point-to-point, multicast, and loop connectivity across the non-blocking, full line-rate switching matrix. All ports are fully bi-directional, offering complete flexibility in determining where to connect host computers, targets, switch ports, or other network devices.

## Features and Benefits

- Accepts one blade with up to 16 ports in a compact chassis
- Increased port density without compromising port accessibility
- Web-enabled interface for remote operation
- Simultaneous access allows concurrent operation by multiple users
- Compliant with major network protocols, including Fibre Channel, Ethernet, SONET/SDH, T1/E1/J1, and DS3/E3/STS-1, up to 10 Gb/s
- Two Ethernet and one serial port for remote operation

## Applications

- Test lab environments - Controls and automates complex test configurations at multiple data rates and protocols Router stress testing
- Enterprise networks - Enables electronic sharing, distribution, and remote management of monitoring equipment
- Network security - Control access to any area of any network by allowing network locations to be electronically isolated or disconnected



## Improved Access and Operation

Several software interfaces that provide various control options are available on the INTELLAPATCH 16 switch backplane.

- An embedded Web interface allows remote control of the switch from a Web browser over a network or the Internet. Secure Socket Layer (SSL) can be enabled for enhanced security.
- An interactive command line interface accessible via Telnet, SSH and the serial console.
- ASCII (Firmware Direct) commands provide uses a backwards compatible interface for scripting to legacy and new chassis
- APCON CONTROLX software provides an easy-to-use, drag-and-drop graphical user interface that allows users to operate and reconfigure ports on multiple switches from a host computer running Windows, Linux, or Solaris operating systems.
- An application programming interface, APCON C/C++ API, can be purchased separately to provide programming access to the switch.
- Additional software is available for application specific purposes, including Apcon Monitor, for electronic equipment sharing in the enterprise network.

Additional features include concurrent operation, which permits simultaneous access by multiple users. INTELLAPATCH 16 also allows users to upgrade firmware over the LAN management port.

## Specifications

### Software Management

#### Web GUI Interface with/without SSL

Multi-platform, real-time patching of connections in a using a standard Web browser.

#### CONTROL X

Multi-switch operating system independent graphical user interface.

#### Command Line Interface: Telnet and SSH

Cross-platform command line access to INTELLAPATCH 16 functionality. This interface can also be used by automation scripts supporting Telnet and SSH. Commands and responses are displayed and executed using user-friendly syntax.

#### Scripting Interface

Enables user to build script automation routines and complete test automation management applications in any programming language.

#### General

Number of Blade Slots	1
Number of Ports	Up to 16, depending on blade type
Protocols (blade specific)	
Compliant with	1, 2, 4 and 10 Gb/s Fibre Channel 10, 100, 1000 Mb/s, and 10 Gb/s Ethernet OC-3, OC-12, OC-48 SONET/SDH, T1/E1/J1; DS3, T3/STS-1; FDDI

Blade Data Rate	10 Mb/s – 10 Gb/s
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#### Serial Interface

Baud Rate	9,600 baud
Mode	No parity, 8 bits, 1 stop bit, no flow control
Maximum Cable Length	15 meters (49.21 feet)
Rear Panel Connectors	DB-9

#### LAN Port

Protocol	TCP/IP
Interface	10/100/1000 Base-T Ethernet
Rear Panel connector	RJ-45

#### Dimensions

16.75" (W) x 15.00" (D) x 1.8125" (H)
42.5 cm (W) x 38.1 cm (D) x 4.6 cm (H)

#### Weight

6.4 pounds (2.9 kg) without blades or transceiver modules	
Power (max)	100 – 240 V AC 50 / 60 Hz (200 W)
Operating Temperature	0°C to 50°C (32°F to 123°F)
Storage Temperature	-40° to 85° C
Humidity	0% to 90 % RH (non-condensing)

#### Reliability

MTBF	150,000 hrs
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#### Agency Approvals

UL, FCC Class A, CE

## Ordering Information

#### Model

ACI-2065-C00-D

#### Description

High-density, 1 blade INTELLAPATCH 16