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Find the *Apcon ACI-2049-E32-1* at our website: *Click HERE*

Data Specifications

INTELLAPATCH™ 32 Physical Layer Switch

A Simple Solution For Network & Lab Physical Layer Automation

APCON's INTELLAPATCH™ 32 Switching System is the industry's first state-of-the-art Automated Physical Layer Switch, providing network administrators seamless control and security at the foundation or physical layer of their network. With wire-once technology built into every INTELLAPATCH 32 switch, network administrators have the ability to manage and re-arrange the physical cabling configuration of network closets and wire racks without the manual effort of pulling and patching a single wire. With APCON's INTELLAPATCH 32 Switches, making changes to your physical network topology has never been easier.



When used in a test lab environment, the INTELLAPATCH 32 with AUTOSWITCH™ Software provides lab managers and test engineers the ability to control multiple test configurations, and automate strategic test sequences that would normally require manual intervention to complete. The integrated functionality built into the INTELLAPATCH 32 and AUTOSWITCH sets new standards for test environments providing more accurate test results and faster product time to market with lower operational costs.

Security is a top priority in today's sophisticated networks. APCON's Physical Layer Switches provide a bullet-proof solution for access control for both small and large networks. The INTELLAPATCH 32, running APCON's Windows-based CONTROL™ Software, provides network managers seamless control of these facilities from a single location where cable management and access control is needed. For timed access control of network endpoints, APCON's AUTOSWITCH Software provides network administrators the ability to automate and control the access link to any network segment. This is key in environments where multiple work shifts take place and timed security is mandatory.

If physical layer control of your network or lab is what you desire and security is what you demand, APCON's INTELLAPATCH 32 is the proven technology you need for full Physical Layer Switching and Automation.

APCON's Physical Layer Switches provide seamless management and security control for small or large networks.

SYSTEM SERVICES

Architecture and Capacity

- Full duplex, non-blocking, 75 Gbps switching capacity per chassis
- 32 hot pluggable SFP transceivers
- Manage switch from LCD control panel
- Signal regeneration on all ports
- TCP/IP and Serial port for remote control
- Point-to-point (full duplex), multicast (1 to N) and loop topologies supported

Fault Tolerance

- Optional 1+1 redundancy for switching/control

Flexible Software Control Options

- GUI Management for Windows based platforms
- Command line utility
- API for simplified programming
- Multi-user proxy
- ASCII command set

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Data Specifications

INTELLAPATCH™ 32 - Control Your Network From Anywhere

As network engineers look to manage and secure critical data running on their network, APCON's INTELLAPATCH™ 32 provides a first line of defense for access control and security where physical network connections terminate, like demarcation points (DMARC), multi-tenant units (MTU), central offices (CO), wiring closets and test labs. Managing remote locations can be costly and time consuming when network problems occur due to cable failure or cable breaks. The INTELLAPATCH 32 gives network providers the ability to manage physical connections from one central location, reducing operations and labor intensive efforts needed to support these remote sites. The results are customers who receive faster action on their service calls and network providers who reduce overall operations cost for service support.

With its ability to provide multicast and signal regeneration, the INTELLAPATCH 32 combined with a network analyzer is an effective, low-cost solution to monitoring network traffic. Administrators can remotely switch from a central location between network segments and actively monitor and analyze both directions of data.

For seamless security, access control and management of your network infrastructure, APCON's INTELLAPATCH 32 provides the first layer of defense from any network to any network.

Services For Remote Access, Control And Monitoring

Benefits

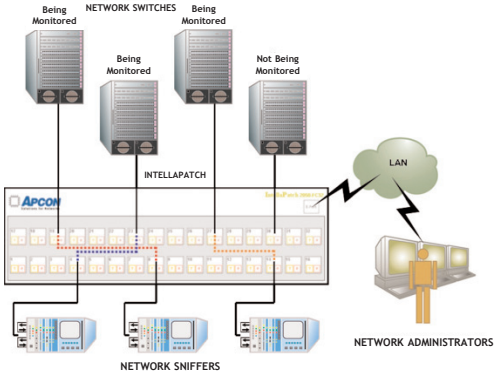
- Lower operations and equipment cost
- Improve network failure response time
- Maintain 24/7 access to remote network and lab facilities
- Improve QOS monitoring and SLA compliance

Applications

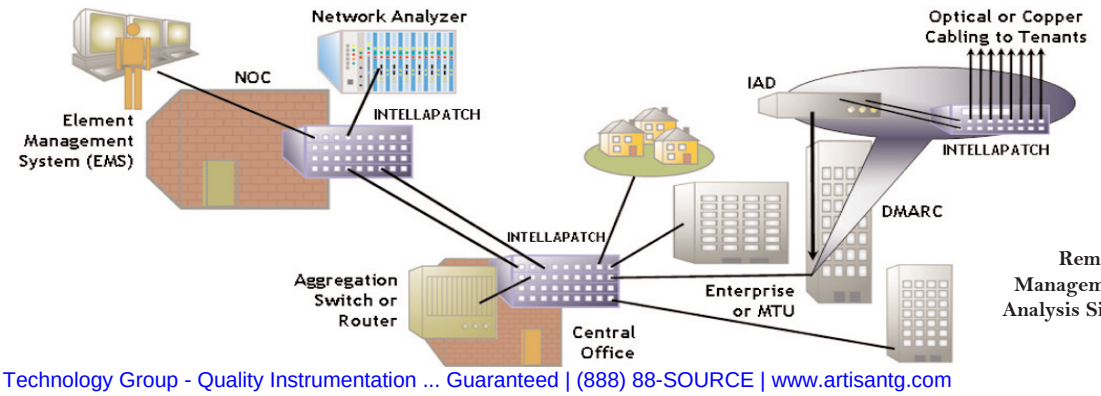
- Manage network elements and physical connections from one central location
- Schedule and access lab resources from a different building or corporate location
- Analyzer insertion to different network segments
- Amplification for fiber taps
- Traffic mirroring to redundant IDS systems
- Security for remote connects and disconnects
- Packet and performance monitoring (data centers, web hosting, ISPs)

Features

- Monitor network segments by timed intervals or pre-set times
- Intrusive and non-intrusive monitoring (port mirroring)
- LAN TCP/IP port and two Serial ports for remote access



Analyzer or Test Equipment Sharing and Remote Access Control Simulation



Remote Management and Analysis Simulation

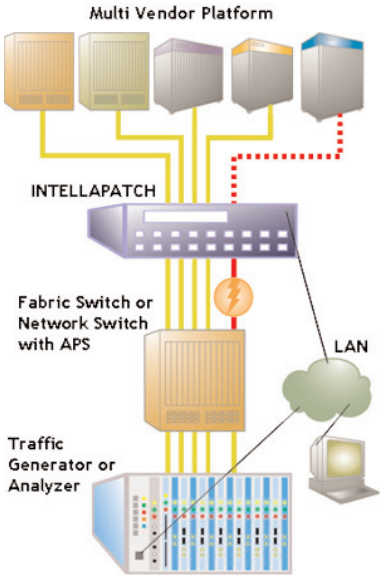
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Data Specifications

INTELLAPATCH™ 32 - Streamline Your Test Lab Environment

In the new age of networking, high-speed data over fiber and copper has become the focus for Research & Development (R&D) and Interoperability testing. As a result, management and control of copper and sensitive optical cables has become a priority among test and network engineers. APCON's INTELLAPATCH™ 32 provides a simple, effective, and low-cost solution to help manage fiber optic and copper cable connectivity.

With its wire-once technology, the INTELLAPATCH 32 provides non-blocking, any-to-any connections at wire speed for Fibre Channel, Ethernet, and SONET/SDH over OC-3, OC-12 and OC-48. Its capabilities allow switching in point-to-point (full duplex), multicast (1 to N) and loop topologies.



Cable Break Simulation

Compatibility or production testing between multiple servers, switches, storage systems, attached devices, peripherals, and operating systems must simulate "real world" use. The INTELLAPATCH 32 can significantly reduce engineering, equipment and test reconfiguration time required to validate compatibility among many network devices.

Combined with APCON's powerful AUTOSWITCH™ scheduling software, users have a fully integrated solution to their cable management and test scheduling requirements. Up to 16 frequently used configurations can be stored in the INTELLAPATCH 32 and can be recalled systematically using APCON's CONTROL™ Software.

Simply put, APCON's INTELLAPATCH 32 and AUTOSWITCH solutions will streamline your testing process so you distribute your product to market faster.

SERVICES FOR TEST LAB APPLICATIONS

Benefits

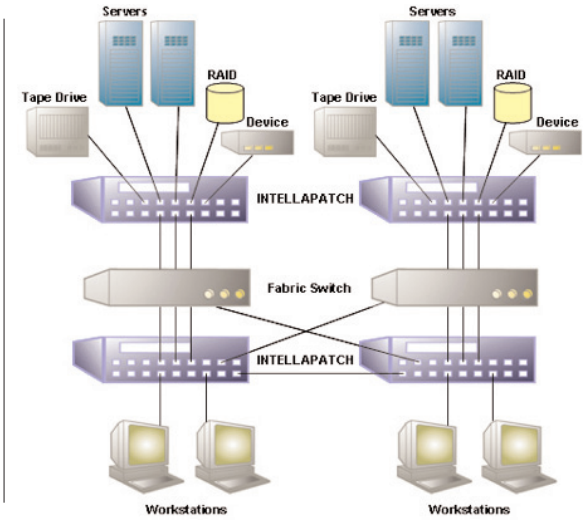
- Lower testing costs
- Distribute product to market faster
- Increase test repeatability

Applications

- Reconfigure test devices "on the fly" through software
- Electronic simulation of cable breaks and port failover
- Electronic sharing of analyzers, probes, and sniffers
- Intrusive and non-intrusive line monitoring
- Multicast traffic generators: (1 to N) sends Tx port 1 to Rx ports 2-64

Features

- Automate and schedule system test routines
- Remote access and control
- Presets allow common test sequences to be instantly configured
- Port naming for test devices and network elements
- Media conversion: Multimode to Singlemode, Fiber Optic to Copper
- Signal amplification on each port

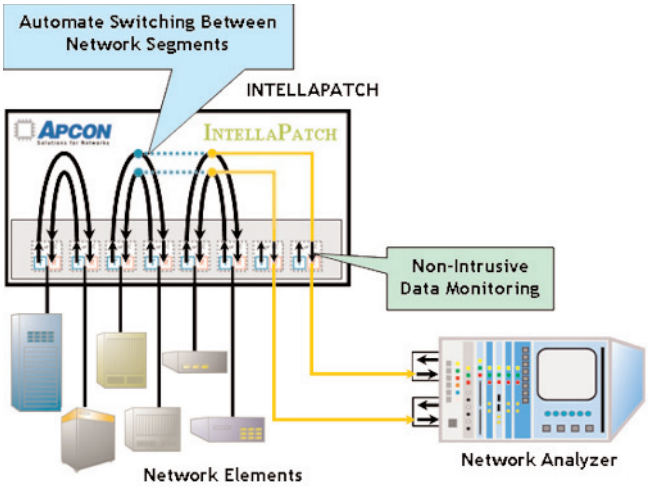


Network Reconfiguration Simulation

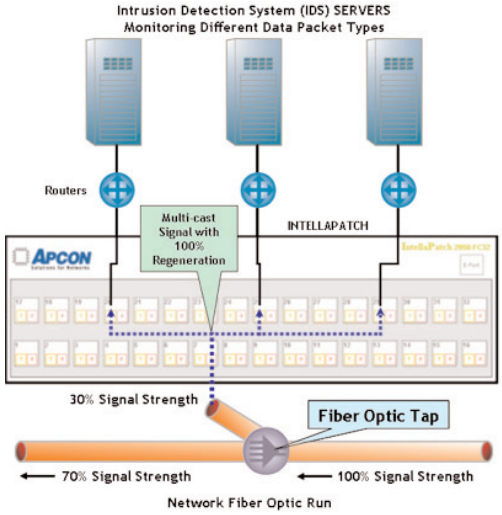
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Data Specifications

Applications for Monitoring



Analyzer Insertion for Non-Intrusive Monitoring Simulation



Signal Amplification and Mirroring for Intrusion Detection Systems (IDS) Simulation

System Overview

FEATURES

Protocols / Data Rates:

Fibre Channel	1.0625 and 2.125 Gb/s
Gigabit Ethernet	1.250 Gb/s
ATM / SONET / SDH	
OC-3	155 Mb/s
OC-12	622 Mb/s
OC-48	2.488 Gb/s

Architecture:

Ports	32 non-blocking, layer 1 ports
Models (32 Port):	Fibre Channel 1/2 Gb/s (ACI-2049-F32-3)
	GIG-E 100/100 Ethernet (ACI-2049-E32-1)
	SONET OC-3/12 (ACI-2049-I32-2)
	SONET OC-48 (ACI-2049-I32-3)

SFP Transceiver Options:
Fiber Optic:
Multimode or Singlemode duplex LC transceivers available for most data rates

Copper:
Fibre Channel only
Copper HSSDC-2 Transceiver 1 Gb/s and 2 Gb/s Max.
Copper Cable Length 12 meters (Max.)

Physical:

Mechanical	16.75" W x 12"D x 3.5"H (42.5 cm W x 30.5 cm D x 8.9 cm H)
Rackmount	2U Industry Standard
Weight	5.0 pounds (2.3 Kg) (Not Populated with SFP's)
Power	90-260 VAC +-10% 50-60 Hz (5A max.) 133 Watt
Operating Temperature	0° to 50°C
Storage Temperature	-40° to 85°C
Operating Humidity	5% to 90% RH (non-condensing)
Storage Humidity	0% to 95% RH (non-condensing)
MTBF	150,000 hrs

Serial Interface:
9600/19200 baud, 8/N/1, 15 meters (50 ft.), DB-9

LAN Port:
TCP/IP, 10 Mbits/sec, RJ-45 -- User configurable IP Address, Subnet Mask and Gateway.

Control Software:
Graphical User Interface:
Windows
Command Line Utility:
Windows, Solaris, Linux
Solaris source code available for porting to other operating systems.

Other Control Options:
SNMP (MIB and Agent Available)
Socket and Serial port direct using ASCII commands

APCON Solutions for Networks

Corporate Headquarters
www.apcon.com
info@apcon.com
Tel: +1 503 639 6700
Fax: +1 503 639 6740
17938 Upper Boones Ferry Road
Portland, Oregon 97224 USA

Regional Sales Office
sales@apcon.com
Tel: +1 843 573 0000
Fax: +1 843 573 0210
Charleston, SC USA

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