

TIS-8632

6 Port 10/100/1000 Ethernet Switch – 4 Copper Ports with 2 SFP Optical Ports

Overview

Elegantly simple yet packed with an advanced feature set, the FiberPlex Technologies TIS-8632 is a powerful 6 Port 10/100/1000 Ethernet Switch. The unit features (4) RJ-45 UTP ports as well as (2) flexible SFP ports.



Shown configured as TIS-8632-L5B with 1310 nm Singlemode SFPs

Two or more TIS-8632 can be chained together via fiber to provide a distributed solution where isolation, distance, security and/or noise immunity is needed between nodes. Locally, an 8 copper x 2 optical switch can be created using a Passive SFP Cable Assembly between SFP ports. This cable saves cost by replacing (2) optical modules and a fiber cable with an inexpensive copper jumper. While this solution is only good for very short 'jumper' lengths, it provides flexibility for local port expansion.

The TIS-8632 is housed in the commercial 'Throw Down' packaging. This version is designed to be a work horse unit in various commercial and industrial environments. It is powered either by a 9VDC 'Wall Wart' style supply (included) or via bussed power supplied through an integrated three pin Phoenix™ connector. Up to three TIS-8632 units can be installed in the optional 1U TDR-01 rack shelf or DIN rail mounted.

Features:

- 6 Ports – (4) 10/100/1000BASE-T Copper and (2) 1000BASE-X Optical
- Flow control for full duplex and half duplex
- Supports up to 10k byte JUMBO frame
- Includes power adapter as well as a 3-position Phoenix™

Applications:

- VOIP
- SCADA
- Physical Security
- IT Infrastructure
- Industrial Controls
- Networked Audio

IEEE 802.3-2008 GbE support

The flexibility of the SFP ports allows for full 1000BASE-X support as defined by the IEEE 802.3-2008 standard. Simply by selecting the appropriate SFP module according to the chart below, a standards compatible GbE port can be created. Each SFP can actually be configured separately, this can be useful if networks based on two different standards needs to be bridged.



SUPPORTED STANDARDS

Copper UTP RJ-45 Interface						
IEEE Standard	Cable		Data Rate	IEEE Max Distance		
10BASE-T	CAT-3 or better		10 Mbps	100 m		
100BASE-T	CAT-5 or better		100 Mbps	100 m		
1000BASE-T	CAT-5e or better		1000 Mbps	100 m		
Optical SFP Interface						
IEEE Standard	FiberPlex SFP	Fiber Type	λ (nm)	Avg Transmitter Power (dBm)	Receiver Sensitivity (dBm)	IEEE Max Distance
1000BASE-CX	FC-QDAXX1-0-1M	Copper	n/a	n/a	n/a	25 m
1000BASE-SX	SFP-MC24XC-8585-0	Multimode	850	-6	-18	500 m
1000BASE-LX	SFP-MC24XC-3131-2	Multimode	1310	-11	-24	500 m
1000BASE-LX	SFP-MC24XC-3131-2	Singlemode	1310	-11	-24	2 km
1000BASE-LX10	SFP-SC24XC-3131-B	Singlemode	1310	-6	-25	20 km
1000BASE-EX	SFP-SC24XC-3131-C	Singlemode	1310	-2.5	-25	40 km
1000BASE-ZX	SFP-SC24XC-5555-F	Singlemode	1550	+2.5	-25	70 km
1000BASE-BX10	SFP-SC24BD-4931-B	Singlemode	1490/1310	-6	-25	20 km
1000BASE-T	SFP-RTGTXC-0000-0	Copper	n/a	n/a	n/a	100 m

Standard Ordering Options

TIS-8632-C – Unit with no SFP modules included

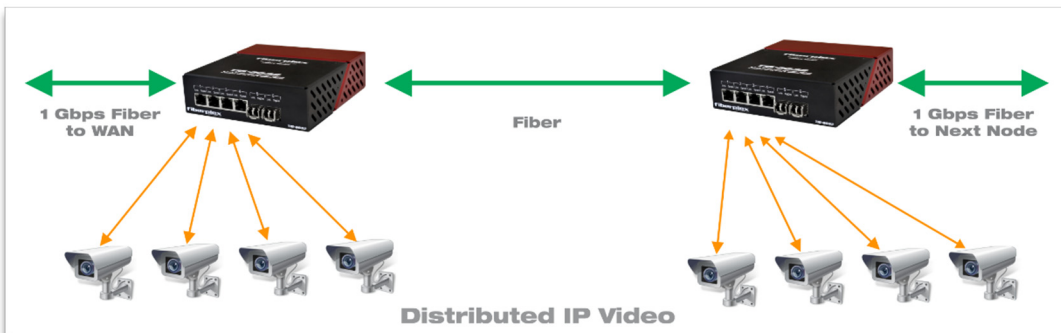
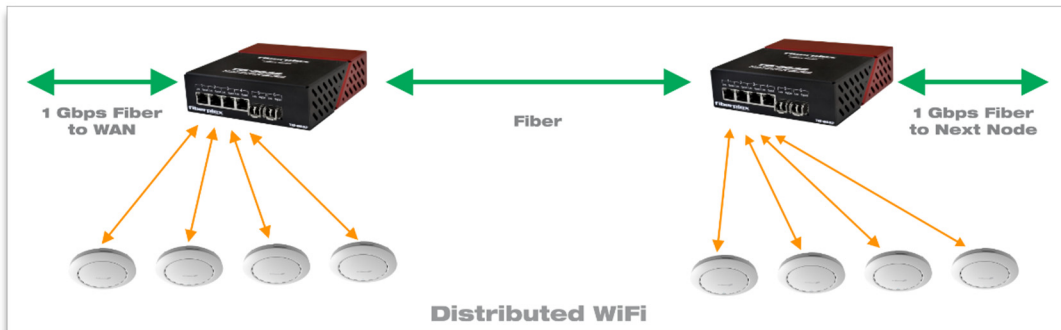
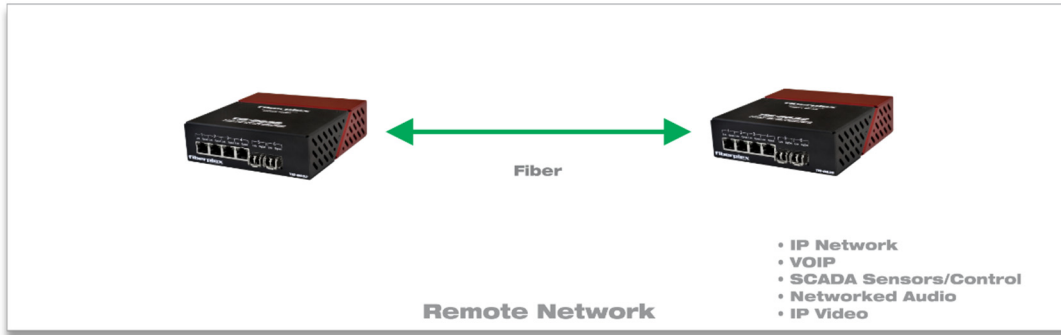
TIS-8632-L22 – Unit with (2) 1310 nm Multimode SFP modules (SFP-MC24XC-3131-2) included. Conforms to IEEE 1000BASE-LX standard.

TIS-8632-L5B – Unit with (2) 1310 nm Singlemode SFP Modules (SFP-SC24XC-3131-B) included. Conforms to IEEE 1000BASE-LX10 standard.

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Typical Applications



Accessories	
TDR-01-AC	1U Rack with power harness – Holds (3) TIS-8632 or (6) TD Modules
TDP	16 Position Modular 1U Connectorization Rack
TD-DINR	DIN Rail mounting bracket
PSA-T913	Spare Wall Power Adapter for TD Series Modules, 9V @ 1.3A