



SMH884 - FPX

High Performance, 20 port,
PoE enabled L2/L3 Fully Managed
Ethernet Switch with Fast Hardware
based Failover on Optical Links



Access Systems

- Provides 8 electrical Ethernet 10/100 BaseTX, 8 electrical PoE 10/100 BaseTX and 4 Optical SFP 100 BaseFX interfaces
- Provides up to 125 W of power and automatic sensing and power consumption classification for 8 remotely powered devices (PD), 15.4 W per port
- Optical SFP 100 BaseFX interfaces can be configured to work in pure hardware controlled, 1+1 protection mode, thus enabling fast, less than 50 ms, traffic restoration
- Compliant with IEE802.3, IEE802.3u and IEE802.3af standards
- Performs wire speed Ethernet Switching function between all user ports, Ethernet 10/100 BaseTX and 100 BaseFX
- Traffic protection through STP, RSTP and MSTP protocol
- Class of service (CoS) with 4-level priority queuing
- Full duplex, Half duplex Flow Control
- Automatic address learning, address aging and address migration
- Static MAC address filtering, MAC address management
- Up to 12 K MAC address space (different MAC addresses)
- Storm control, broadcast and multicast flooding
- GARP VLAN registration protocol (GVRP)
- Port trunking support, Link Aggregation Group (LAG)
- Software/Firmware field upgrade support, gold configuration backup and restore
- SNMP1/2 based network management interface
- Management through Embedded Web Server accessible via standard WEB browser
- User name and password based security
- 19" Rack and Desktop mountable metal housing, IP30 protection
- Rear access to all user connectors, LED indication at front panel of device
- External input and output alarm contacts
- Extended temperature and tropicalized interior against excessive humidity
- Redundant DC 48V power supply option

IRITEL
*bright
connections*

TELECOMMUNICATIONS AND ELECTRONICS

<http://www.iritel.com>

e-mail: info@iritel.com

Description

IRITEL SMH884-FPX is hardened, 20 port, fully Managed, Power over Ethernet (PoE) enabled, High Performance Ethernet L2/L3 Switch designed to operate in harsh environments.

TECHNICAL DATA

Ethernet Interface

According to IEEE 802.3 Ethernet 10/100Base-TX:

Interface type	duplex
Electrical characteristics	IEEE 802.3
Transfer	symmetrical
Range(UTP CAT5)	135 m
Isolation	1500 Vrms/50Hz/60s according to IEC EN 60950 standard RJ45
Connector	

Power over Ethernet:

Power delivery mode	Mode A, phantom
Power range	Type 1
Maximum delivered power	15.40 W
Maximum power at PD	12.95 W
Maximum current	350 mA
Maximum cable resistance (CAT 3)	20 Ω
Voltage Range	44 - 57 V

Ethernet 10/100Base-FX:

Transport type	duplex
Electrical characteristics	IEEE 802.3
Transport medium	single mode optical fiber multimode fiber (option)

Optical SFP Ethernet interfaces

SFP Plug in Tranceiver Type 1	OI.S1A1
Connector type	LC
Transmitter type	1310 nm FPLD
Output power	-15 to -8 dBm
Maximum spectral width of the optical tranceiver	7.7 nm (RMS)
Receiver type	PINFET

Guaranteed sensitivity of the optical receiver	Max -28 dBm
Optical budget	14 dB
Maximum level of the input signal	Min -8 dBm
Section length	15 km
SFP Plug in Tranceiver Type 2	OI.S1A
Connector type	LC
Transmitter type	1310 nm FPLD
Output power	-5 to 0 dBm
Maximum spectral width of the optical tranceiver	4 nm (RMS)
Receiver type	PINFET
Guaranteed sensitivity of the optical receiver	Max -34 dBm
Optical budget	29 dB
Maximum level of the input signal	Min -10 dBm
Section length	40 km

Alarm Interface

Input	
Activation current	5 mA
Maximum current	30 mA
Maximum voltage	70 V
Output	
Maximum current	0.5 A
Type	Relay
Maximum voltage	110 V

Power

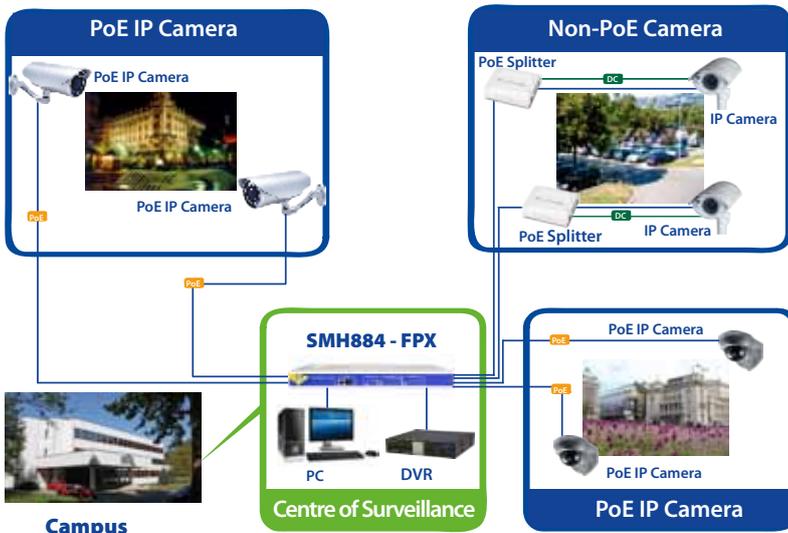
DC Power Supply	without PoE 48V (40 ~ 72V)
	with PoE IEEE 802.af, 48V (45 ~ 57V)
Dissipation (PoE not included)	up to 12 W

Environment conditions

Extended operation class	
Temperature	- 25° to +60° C
Relative Humidity	5-95% (non condensing)

System Configuration

1U Metal Case Dimension	440mmx257mmx43.2mm (17.32" x 10.11" x 1.70")
Case Weight	3.15 kg



APPLICATION

- 100Base-TX UTP
- PoE 100Base-TX UTP with PoE
- DC Power Line (DC)