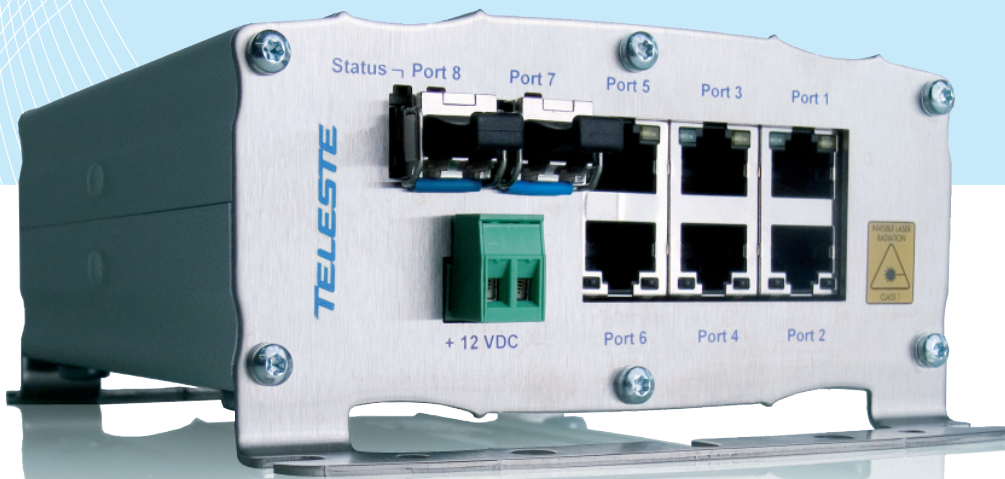


# Eight port Fast Ethernet switch

For video networking applications

MPC is a common nominator for compact size stand-alone units in the EASI® MP-X platform. The MPC-SF is a robust, temperature hardened 8-port layer-2 managed Fast Ethernet switch.



The MPC-SF family switches are designed for Ethernet networks in mission-critical real-time control applications as well as for LAN extensions.

Installations are made easy with the MDI/MDIX and auto-polarity supported by the 10/100Base-TX local ports.

The up-link interfaces, either one or two, support optical 100Base ports.

The optical interface is available for multimode and singlemode fibres

in variety of link budgets and optical wavelengths. In addition to standard 1310 nm and 1550 nm outputs, the MPC-SF can be equipped with ITU-T CWDM grid compliant output.

The MPC-SF supports fast network redundancy with link recovery, either based on FRNT 0 or RSTP/STP.

High multicast load is handled by the IGMP snooping feature.

Management of the MPC-SF switches is easy and is done via WebUI.

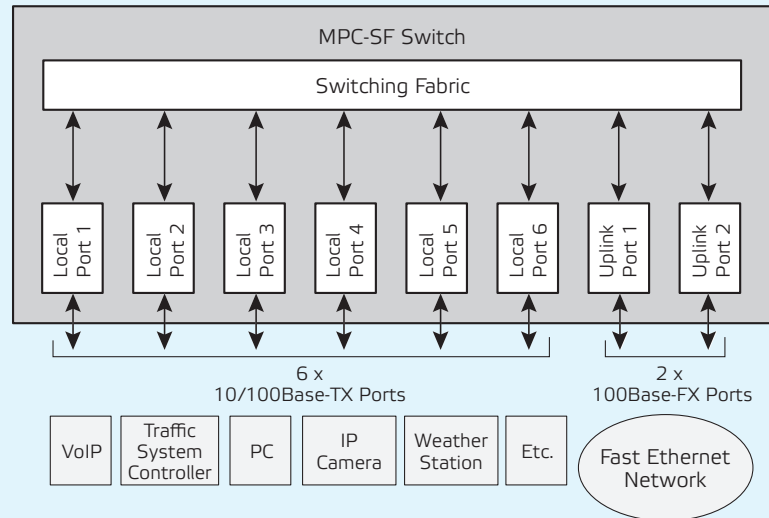
Excellent real time properties are offered through both layer 2 and layer 3 priority support with four priority queues (QoS).

The MPC-SF switches are temperature hardened for enhanced environmental performance.

## FEATURES

- >> 6 x 10/100Base-TX local ports
- >> Auto-negotiation and auto sensing of speed and full duplex per TX port
- >> 2 x 100Base-FX full duplex up-link ports
- >> Small form pluggable optics (SFP), several link budget variations available
- >> FRNT v0 – redundant ring
- >> RSTP with STP fallback
- >> IGMP v1, v2 & v3 snooping
- >> VLAN support; port based VLAN with tag removal possibility
- >> SNMP v2c
- >> MAC address filtering per port
- >> QoS based on layer 2 (IEEE802.1p) and layer 3 (IP ToS)
- >> Low power consumption
- >> Password protected user access
- >> User friendly WebUI
- >> Feasible for temperature hardened operation

## BLOCK DIAGRAM



## TECHNICAL SPECIFICATIONS

Up-link ports (SFP)*			Management	
Number of ports	1 or 2	full duplex	WebUI	local via ethernet port & remote via network
Standard	100Base-FX	MMF & SMF	SNMP	remote via network
<b>Optical</b>			<b>General</b>	
MMF 1310 nm	2 km	2 fibres	Supply voltage	10.5...14 V DC
SMF 1310 nm	30 / 60 km	2 fibres	Power consumption	5 W no fiber version
SMF 1550 nm	20 / 100 / 120 km	2 fibres		5.7 W one SFP transceiver
BIDI SMF 1310/1550 nm	25 / 60 km	1 fibre		6.4 W two SFP transceivers
BIDI SMF 1550/1310 nm	25 / 60 km	1 fibre	PSU connector type	2-pin removable screw terminal
CWDM (ITU G.694.2)	100 km	2 fibres	Dimensions (H x W x D)	60 ● 130 ● 130 mm (2.4 ● 5.1 ● 5.1")
Connector type	LC	MMF & SMF	Weight	1.0 kg (2.2 lb)
<b>Local ports</b>			Housing	Stand-alone, DIN-rail mount *
Number of ports	6	full duplex	MTBF	> 150.000 h HRD5
Standard	10/100Base-TX	CAT5/CAT5e	Operating temperature	-34...+74 °C (-29...+165 °F) temperature hardened
Connector type	RJ-45	CAT5 (UTP)	Storage temperature	-40...+80 °C (-40...+176 °F)
<b>Protocols</b>			Humidity	95 % non condensing
802.3	10Base-T		Vibration	EN50130-5 1995
802.3u	100Base-TX, -FX		Damp heat	BS2011 p2.1
802.1q	VLAN		EMC compatibility	EN61000-6-4, CE, FCC
802.1d	STP		Susceptibility	EN50130-4
802.1w	RSTP		Safety	EN60950
802.1p	QoS	layer 2	<b>Notes</b>	
802.3p	QoS	layer 3 (IP ToS)	* optional	
802.3x	flow control		<i>Typical values unless otherwise stated</i>	
IGMP	version 1, 2 & 3			
FRNT v0	redundant ring	proprietary protocol		
SNMP	version 2c			
DHCP		IP address acquisition		
FLHP		proprietary protocol		
<b>Performance</b>				
Switching fabric	Non-blocking	layer 2		
MAC address table size	2048 kB			
QoS (Quality of Service)	High-speed non blocking QoS switch fabric with 4 traffic classes. 1Mbit shared frame buffer			

MPC-SF v1 23/05/2008

**TELESTE**