

# TECHNICAL INTERFACE SPECIFICATIONS



PFALZKOM|MANET  
ZUKUNFT VERBINDET

# TECHNICAL INTERFACE SPECIFICATIONS

## GENERAL TECHNICAL INFORMATION

There are a variety of lines or virtual connections provided with different interfaces and characteristics. The actual throughput achieved for each connection depends on the frame size used, the bandwidth of the connection and the functions assigned to the connection. The transmission of the Ethernet-Frames is transparent. Higher level protocols can reduce the actual throughput of the application in connection with the round-trip delay. The assigned data rate represents a maximum value.

## STANDARD INTERFACES

Bandwidth	Medium	Interface	Connection	
2-999 Mbit/s	10/100/1.000 Mbit/s	Electronic	Ethernet	RJ-45
1.000 Mbit/s	1.000 Mbit/s	1.000 Base-LH	Gigabit Ethernet Optical SM	LC
10 Gbit/s	10 Gbit/s	10 G Base-LH	Gigabit Ethernet Optical SM	LC
STM-64	10 Gbit/s	Optical	ITU-T G.957, G.958	E2.000
STM-16	2,5 Gbit/s	Optical	ITU-T G.957, G.958	E2.000
STM-4	622 Mbit/s	Optical	ITU-T G.957, G.958	E2.000
STM-1	155 Mbit/s	Optical	ITU-T G.957, G.958	E2.000
E1, 2MU	2.048 Mbit/s	Electronic	ITU-T G.703	RJ-45
Wavelength				
Wavelengths up to 2.5 Gbit/s	Up to 2.5 Gbit/s	Optical, 1.310 nm		As agreed
Wavelengths up to 10 Gbit/s	Up to 10 Gbit/s	Optical, 1.310 nm or Lambda		As agreed

# TECHNICAL INTERFACE SPECIFICATIONS

## STANDARD TRANSFER INTERFACE SETTINGS

Parameter	ETH-Configuration	OTN-Configuration
Autonegotiation	Ethernet: Enabled	Disabled
Port Speed	10/100/1.000/10.000 Mbit/s	1.000/10.000 Mbit/s
Duplex Mode	Full	Full
Flow Control	Disabled	Disabled
User Link Loss Forwarding	Disabled	Enabled
Network Link Loss Forwarding	Disabled	Enabled

## TRANSPARENCY

Transparency on L2 with Fixed Line Ethernet Access
IEEE 802.1Q (VLAN)
IEEE 802.1
IEEE 802.1D (STP)
IEEE 802.1w (RSTP)
IEEE 802.1s (MSTP)
IEEE 802.3ad (Link Aggregation)

## SUPPORTED MTU SIZES

The values represent a maximum value. The actual usable MTU may vary. Different parameters can be requested in individual cases.

Transfer medium	MTU
Copper	1.576 Bytes
Wireless	1.626–2.048 Bytes
LWL 1G (Eth/MPLS)	1.998–9.000 Bytes
LWL 1G (OTN/SDH)	9.000 Bytes
10-Gigabit Ethernet Interface	9.000 Bytes