WAVELENGTH CONVERSION

Network signal wavelength converters

Client-to-line optical wavelength conversion for multiple SDH and Ethernet rates.

Applications to discuss: Client-to-DWDM network interfaces; Long-span optical links.

Selection points
155 Mb/s to 11.1 Gb/s listed rate options / 1260-1620 nm client input coverage / LC/PC optical connections

Configuration options

Configuration	Data rate	Input receiver sensitivity
155 Mb/s STM-1	155 Mb/s STM-1	-49 dBm
622 Mb/s STM-4	622 Mb/s STM-4	-45 dBm
2.5 Gb/s STM-16	2.5 Gb/s STM-16	-39 dBm
1.25 Gb/s Ethernet	1.25 Gb/s	-42 dBm
10 Gb/s rate group	10.3 Gb/s 9.953 Gb/s	-34 dBm
10.7/11.1 Gb/s rate group	11.1 Gb/s 10.7 Gb/s	-22 dBm

Each row is a separate configuration. Limits from different rows must not be combined.

Technical details

Parameter	Specification or condition
Line output wavelength	155 Mb/s STM-1, 622 Mb/s STM-4, 2.5 Gb/s STM-16, 1.25 Gb/s Ethernet: 1552.52 nm; 10 Gb/s rate group, 10.7/11.1 Gb/s rate group: 1530-1564 nm
Client input wavelength range	1260-1620 nm
Optical connectors	LC/PC

Integration and delivery

Item	Configuration detail
Format	Standalone converter or combined amplifier/converter enclosure
Management	Web interface, command interface and SNMP

Conditions and configuration notes

- The headline description rounds the upper rate to 10 Gb/s; the detailed table separately lists 10.3, 9.953, 11.1 and 10.7 Gb/s.
- Receiver-sensitivity bit-error ratios and protocol conditions are not stated for these entries.