HL1000 Series 2U+1U Rackmount CWDM Transmission System

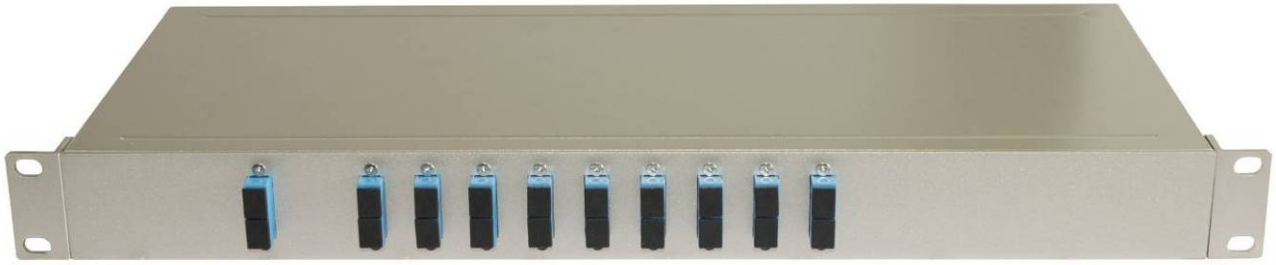
Features

- Large capacity. Transmission rate per channel up to 10Gbit/s. Total capacity up to 160Gbit/s.
- SFP, SFP+ or XFP speed ratio: 155M, 1.25G, 2.5G, 4G, 10G.
- Flexible and transparent access for various rates and services inluding Ethernet, PDH, SDH, and CATV and etc.
- Expands capacity easily by inserting new CWDM OUT module cards. Support up to 16 channels per 2U rackmount.
- Long distance transportation from 10KM to 120KM.
- Wavelength reshaping and signal amplifying. (1R or 3R optional)
- Up to 18 channel for passive CWDM and DWDM upgrading is supported.
- OUT interfaces support variours equipments connections, including single mode signal, multi mode signal or RJ45 accecss.
- Transmission mode support: single fiber, Bidi and dual fiber, Bidi transmission.
- Flexible network management configuration based on SNMP. CLI, WEB and TELNET optional.
- 1+1 power supply backup system. Hot plugging for duplicate power supply is supported. DC or AC optional.

Applications

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical amplifier
- Acess Network

Passive Part: 1U 19” Passive CWDM Mux/Demux Rackmount



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Performance Specifications For Passive CWDM Mux/Demux

Parameter		4 Channel		8 Channel		16 Channel	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)		1270~1610					
Center wavelength Accuracy (nm)		±0.5					
Channel Spacing (nm)		20					
Channel Passband (@-0.5dB bandwidth (nm)		>13					
Insertion Loss (dB)		≤1.6		≤2.5		≤4.5	
Channel Uniformity (dB)		≤0.6		≤1.0		≤1.5	
Channel Ripple (dB)		0.3					
Isolation (dB)	Adjacent	N/A	>30	N/A	>30	N/A	>30
	Non-adjacent	N/A	>40	N/A	>40	N/A	>40
Inertion Loss Temperature Sensitivity (dB/℃)		<0.005					
Wavelength Temperature Shifting (nm/℃)		<0.002					
Polarization Dependent Loss (dB)		<0.1					
Polarization Mode Dispersion		<0.1					
Directivity (dB)		>50					
Return Loss （dB）		>45					
Maximum Power Handling (mW)		300					
Opterating Temperature (℃)		-5~+75					
Storage Temperature (℃)		-40~85					
Package dimension (mm)		440(W)× 44(H)× 230(D)(mm)					

Specification may change without notice.

Above specification are for device without connector.

Active Part: OUT Board With SFP Transceivers In 2U 19” Rackmount

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Single OTU Board With CWDM SFP

- One 2U OUT Rackmount suports up to 16pcs OUT boards. (Depends on number of CWDM wavelenths)
- Hot Plug supported.
- Convert all accessed signal wavelenths into standard CWDM wavelengths.
- Wavelength reshaping and signal amplifying.(1R or 3R optional)
- Compatible with standard CWDM SFP, SFP+ or XFP
- Support speed ratio: 155M, 1.25G, 2.5G, 4G, 10G

Performance Specifications For 2U+1U CWDM System

System Parameters		Technical Index
Maximum system capacity		4channel/8 channel/16channe/18 channel x10G
Wavelength range		Comply with the ITU-G.695 standard
Service Access Types		PDH , ATM, SDH（STM-1~STM-64）OC-192/ OC-48/ OC-12OC-32 FE, GE, 10GE, FICON/ESCON/FIBER Channel/CATV
Opticalinterface transmission		1R/3R transmission, each channel rate supports 125Mbps~10Gbps(Optional)
Physical network topology		Point to point, Point to multi-points, Chain, Ring, Single Fiber Bidirectional
Fiber Type		G.652 G.653 G.655
Management System		CLI /TELNET/SNMP/WEB
Product Size	2U OTU	25(W)×88(H)×116(D) (mm)
	1U Rackmount	440(W)×44(H)×230(D) (mm)
	2U Rackmount	428(W)×88(H)×322(D) (mm)
Environmental Requirement	Operating Temperature	-10℃ ~ 60℃
	Storage Temperature	-40℃ ~ 80℃
	Relative humidity	5% ~ 95%
Power Supply Requirements(Standard)		220 V/AC, 50Hz, -48 V/DC(Optional)
Safety and EMC		In line with the FCC, UL, CE, TUV, CSA standards
Power Consumption		≤ 60W

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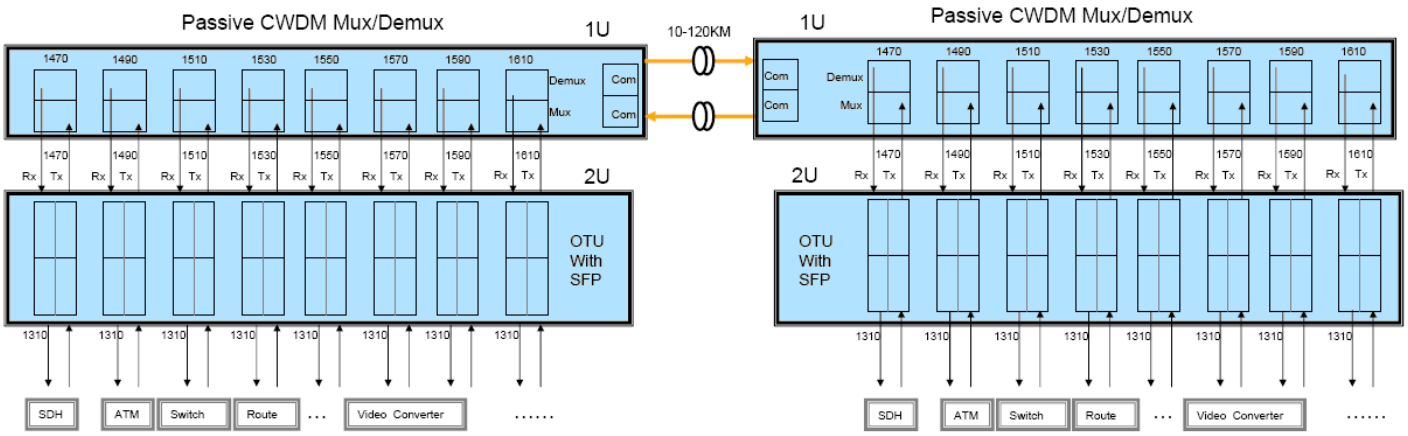
Application



Ordering Information

HL 1000C	X	XX	X	X	X
Passive Part	System Type	Number of Channel	Transmission Type	management System	Power Supply
	2 = 2U+1U	04= 4 channel 08= 8 channel 16=16channel XX=Customize	1=Dual fiber Bidirectional 2=Single fiber Bidirectional X=Customize	1=With Management 2=No Management	1=dual AC 2=dual DC

HL_OTU	X	X	X	XX	CXX
Active Part	Speed Ratio	Transmission Distance	Client Interface	Wavelength Reshaping	First Wavelength
	0 = 155M 1 = 1.25G 2 = 2.5G 3 = 10G	1 = 40KM 2 =60KM 3 = 80KM 5 = 120KM X = Customize	S=Single-mode LC M=Multi-mode LC X = Customize	1R= Without Wavelenth Reshaping (Standard) 3R= With Wavelenth Reshaping	27 = 1270nm (1270~1610) XX=Customize

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