

DKTCOMEGA EDFA series

- 6465x series, compact series
 - 64652 - EDFA-17-220-SA-01-S
 - 64653 - EDFA-17-220-SA-02-S
 - 64654 - EDFA-17-220-SA-03-S
 - 64655 - EDFA-17-220-SA-04-S
 - 64656 - EDFA-19-220-SA-04-S
 - 64657 - EDFA-21-220-SA-04-S
- 6481x/6482x series, advanced / redundancy series
 - 64814 - EDFA-17-230-SA-04-S
 - 64821 - EDFA-17-230R-SA-01-S
 - 64824 - EDFA-17-230R-SA-04-S
 - 64825 - EDFA-19-230R-SA-08-S
 - 64826 - EDFA-21-230R-SA-04-S
 - 64827 - EDFA-21-230R-SA-08-S
- Other port types available upon request





6465x series, compact series

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6465x series, compact series

- Suitable for installations where space is limited, like Street cabinets
- Compact size (W x L x H):
 - 483×252×43.6mm

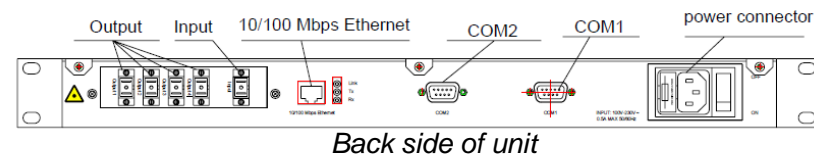
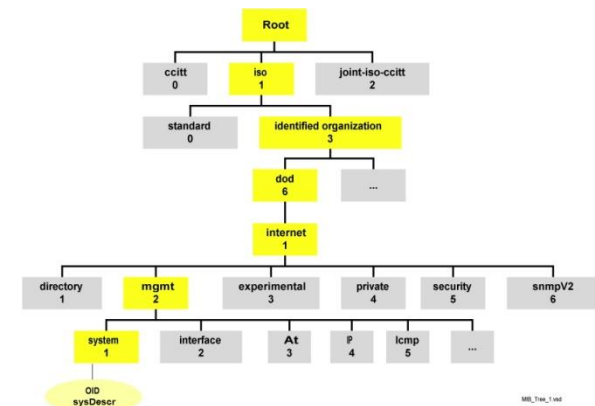
Parameters	Unit	Min	Typ	Max	Note
Optical Specifications					
Optical input power	dBm	0		10	total
		4			
Optical output power at each output port	dBm	16.8	17	17.2	total
Wavelength	nm	1530	1550	1564	
Noise figure	dB			5.0	Pin=0dBm
Gain flatness	dB			1.2	Based on 0dBm input power, 20°C environment temperature.
PDG	dB			0.3	
Pump leakage at input	dBm			-30	
Pump leakage at output	dBm			-30	
Input Return Loss	dB	45			
Output Return Loss	dB	45			
Fiber connector		SC/APC			

Electrical Specifications					
Voltage supply	VAC	100	230	240	
Power consumption	W			30	
Frequency	Hz		50/60		
Environmental Requirements					
Operating temperature	°C	0		50	
Storage temperature	°C	-25		70	
Operating relative humidity	%	5		95	(non-condensation)
Others					
User Interface		Front panel LCD display work parameter			
		Front panel LED display working status and alarm			
Network management Interface		RJ45 RS232			
Dimension	mm ³	483×252×43.6			



SNMP Management

- SNMP MIBs complies with RFC
 - RFC1155, 1212, 1213, 1215 for easy to integrate into 3rd party network management platforms
- Management available via RJ-45 or serial port
 - RJ-45: IP Address is configured via LED control panel, management via SNMPv1
 - Serial port: Management application for serial port connectivity





Alarm management

- EDFA Parameter Alarm and Alarm type
 - The equipment starts alarming when the current collected parameter match the pre-setting alarm scope
- Alarms available:
 - Optical Input Power
 - Optical Output Power
 - Pump Temperature
 - Pump Bias Current
 - Pump Refrigeration Current.
 - Type: Too Low, Low, High, Too High, No Input No Output





6481x / 6482x series, advanced / redundancy series

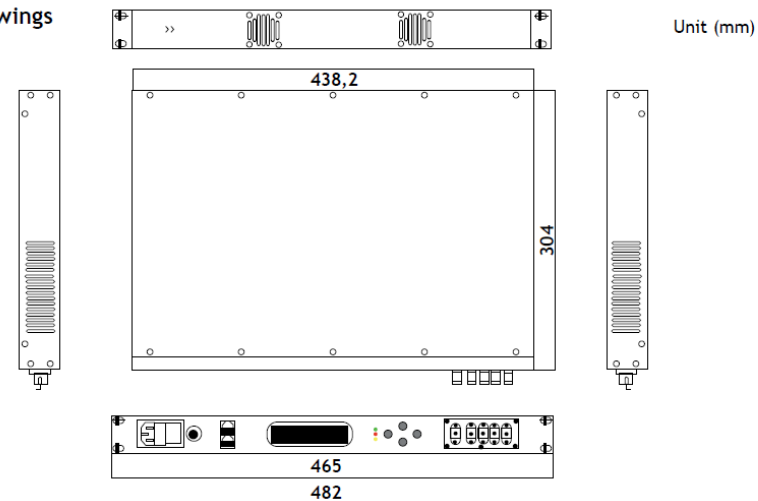
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6481x series, advanced series

- Rack mountable
- Connectors on front
- Single PSU with AC 100 ~ 220V or DC -48V
- Automatic Power Control(APC)
- Flexible port configuration
- Total output power 27 dBm

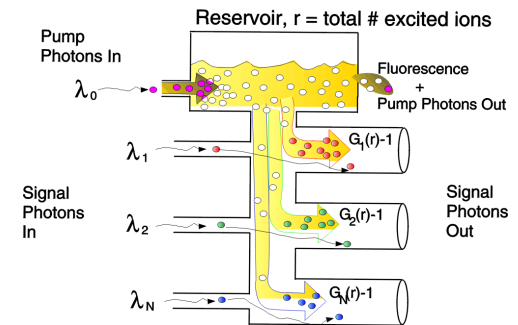
Outline drawings



6482x series, redundancy series

- Same as 7981x series
- Suitable for large PoP installations
 - Rack mountable
 - Connectors on the front
 - Support for dual power supply, with -48VDC backup power
 - Hot swappable PSU and fan
- Flexible port configuration:
 - 1, 2, 4, 8, 16 output ports available

How to think of an EDFA





6482x series, redundancy series

- Fiber connectors: SC/APC
- Key parameters:

Parameter	Symbol	Min	Typ	Max	Unit
Signal Wavelength Range	λ	1530	1550	1562	nm
Input Power	P_{IN}	-5	0	-	dBm
Output Port Power	P_{OUT}	20.5	21	21.5	dBm
Number of Output Port		-	-	4	
Noise Figure*	NF	-	-	5.5	dB
Uniformity				1.0	dB
Optical Isolation	ISO	30	-	-	dB
PDG	-	-	-	0.5	dB
PMD	-	-	-	1	ps
Input Power Alarm	LOS	-12-	-11	-10	dBm

* Test Condition : Input Power = 0 dBm (@ 1550nm).



SNMP Management

- SNMP management, MIBs available for 3rd part network management integration
- Loss of Input Power (LOS)
 - The optical input power alarm is activated when the optical input decreases to below min level
- Loss of Output Power (LOP)
 - The optical output power alarm is activated when the optical power decreases to below min level
- Pump Bias Alarm
 - If the bias current of any pump laser diode exceeds 95% of its End-of-life (EOL) value, the pump bias alarm is activated
- Case Temperature Alarm
 - If the temperature of the EDFA exceeds 55 dec C, or decreases below -5 deg C, the alarm bit will be set (available via SNMP only)



17 / 19 dB EDFA models

- Redundant Power Supply
 - A: 230VAC only
 - B: -48VDC only
 - C: Combo 230V and -48VDC
- Dual Hot swappable
 - Single, field replaceable or fixed available on request
- Power Dissipation, less than 40W
- Dimensions (W x L x H): 482 x 345 x 44mm
- SNMP MIB for PSU
 - PSU output voltage and status



21 dB EDFA models

- 8x 21 dB EDFA in 2U height
 - Note that 4x 21 dB is available in compact 1U
- Same configuration options as 17/19 dB
- Power Dissipation, less than 50W
- Dimensions (W x L x H): 482 x 348.8 x 88mm
 - Note that 4x 21 dB is equivalent to 17/19 dB

