GPP PLATFORM (GENERAL PLUGGABLE PLATFORM)

Jabil Photonics General Pluggable Platform (GPP) is optical transmission platform with strong versatility, available in 1RU or 2RU variant, capable to host different service cards like amplification and optical MUX.

Remote configuration and monitoring is possible thank you to the support of SNMP MIB and graphical GUI. Fan cards and power supplies (-48VDC or 110-220VAC variants) are pluggable and full redundant.

Features

- 1RU (with three services slots) or 2RU (with seven service slots) version
- Redundant hot swappable power module: supported 110/220VAC and -48VDC (or a mix)
- Replaceable fan unit.
- Replaceable Controller card.
- Works for 19’ or 21’ racks
- Network Management interface supporting SNMP via Ethernet port
- Wide range of pluggable service cards available.

Applications

- DWDM
- CATV

Environmental Specifications

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	-5	25	+55	℃
Storage Temperature	-40	------	+85	℃
Operation Humidity*	5	------	95	%
Storage Humidity	5	------	95	%

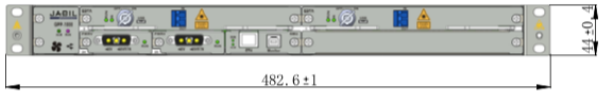
(*) not condensing

Common Parts

No.	Items	AB	Description
1	2RU Chassis	FRM	1. Supports 7 service slots 2. 2 power slots, 1 management slot, and 1 fan slot. 3. All are front panel operations and are hot swappable. 4. The chassis can recognize and accept different service card in different slot.
2	1RU Chassis	FRM	1. Supports 3 service slots 2. 2 power slots, 1 management slot, and 1 fan slot. 3. All are front panel operations and are hot swappable. 4. The chassis can recognize and accept different service card in different slot.
3	Power Supply Module	PWR	Support dual power -48VDC, range -36~-72VDC, or dual power 110-220VAC
4	Fan Card Module	FCM	Intelligent temperature control system, the direction of the wind is right to left
5	Network Management Unit	NMU	One RJ45 network adapter and one Micro USB connector, where RJ45 is the network management interface and Micro USB is the local interface

Operating Specifications

Items	1RU GPP	2RU GPP
Power Supply	Dual -48V DC or Dual 110-220V AC	Dual -48V DC or Dual 110-220V AC
Interface Support	RS232, Ethernet	RS232, Ethernet
Ethernet Data Rate	10Mb/s, 100Mb/s	10Mb/s, 100Mb/s
Alarms Port/Display	RJ45 Output/LED	RJ45 Output/LED
Power Consumption	≤75W	≤250W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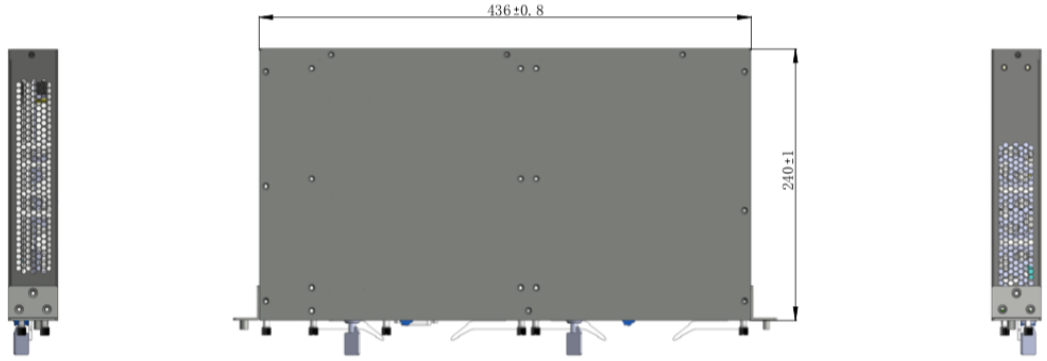
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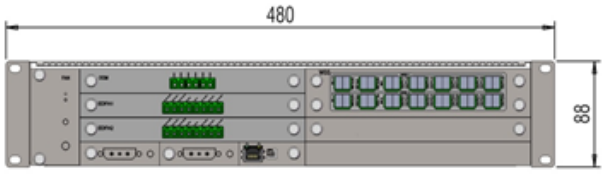
480
88


240

Optical Specifications

Parameter	Min	Typical	Max	Unit	Note
Operating wavelength	1529		1561	nm	
Number of channels			40		
Polarization Mode Dispersion			0.3	dB	Across all sop
Polarization Dependent Gain			0.5	dB	Across all sop
Optical Return Loss	45			dB	
Pump leakage at Input & output			-30	dBm	
EDFA-Booster-2517					
Gain		25		dBm	
Input Power Range	-27		-8	dBm	
Signal Output Power		17			
Gain Flatness			1.5	dB	Peak to peak
Noise Figure			5.5	dB	@Input=-8dBm
EDFA-Pre-1122					
Gain		11		dBm	
Input Power Range	-7.5		+11.5	dBm	
Signal Output Power		22.5			
Gain Flatness			1.5	dB	Peak to peak
Noise Figure			6.0	dB	@Input=11.5dBm
EDFA-Booster-2021					
Gain		20		dBm	
Input Power Range	-20		1	dBm	
Signal Output Power		21			
Gain Flatness			1.5	dB	Peak to peak
Noise Figure			6.0	dB	@Input=-1dBm

Ordering information

Jabil Part Number	Description	Gain	Output Power	Other info
JP-1RU-SHELF	1RU Shelf GPP			
JP-2RU-SHELF	2RU Shelf GPP			
JP-AC-POW	AC Power GPP			
JP-DC-POW	DC Power GPP			
JP-NMU	NMU GPP			
JP-EDFA-BA-2517	EDFA-BST FGA 2517 for GPP	25	17	Booster
JP-EDFA-BA-2021	EDFA-BST FGA 2021 for GPP	20	21	Booster
JP-EDFA-BA-2017	EDFA-BST FGA 2017 for GPP	20	17	Booster
JP-EDFA-PA-1122	EDFA-Pre FGA 1122 for GPP	11	22	Preamplifier
JP-EDFA-PA-1522	EDFA-Pre FGA 1522 for GPP	15	22	Preamplifier
JP-EDFA-PA-1515	EDFA-Pre FGA 1515 for GPP	15	15	Preamplifier
JP-EDFA-BA-2020	EDFA-BST FGA 2020 for GPP	20	20	Booster
JP-EDFA-LA-1517	EDFA-LA-FGA 1517 for GPP	15	17	Line Amplifier
JP-EDFA-PA-1722	EDFA-Pre FGA 1722 for GPP	17	22	Preamplifier
JP-EDFA-PA-2020	EDFA-Pre FGA 2020 for GPP	20	20	Preamplifier
JP-EDFA-PA-1020	EDFA-Pre FGA 1020 for GPP	10	20	Preamplifier
JP-BD-MUX8-DEMUX8	8CH MUX&DEMUX for GPP			Mux/Demux
JP-BD-MUX40	40CH MUX for GPP			Mux
JP-BD-DEMUX40	40CH DEMUX for GPP			Demux

Contact information

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