

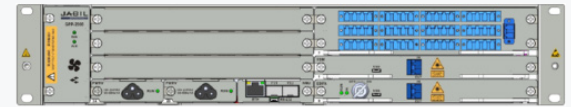
DATA SHEET

GPP PLATFORM (GENERAL PLUGGABLE PLATFORM)

DESCRIPTION

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

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



KEY 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

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ENVIRONMENTAL SPECIFICATIONS

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

(*) not condensing

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 |

COMMON PARTS

| No. | Items | AB | Description |
|-----|-------------------------|-----|--|
| 1 | 2RU Chassis | FRM | <ol style="list-style-type: none"> Supports 7 service slots 2 power slots, 1 management slot, and 1 fan slot. All are front panel operations and are hot swappable. The chassis can recognize and accept different service card in different slot. |
| 2 | 1RU Chassis | FRM | <ol style="list-style-type: none"> Supports 3 service slots 2 power slots, 1 management slot, and 1 fan slot. All are front panel operations and are hot swappable. 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 |

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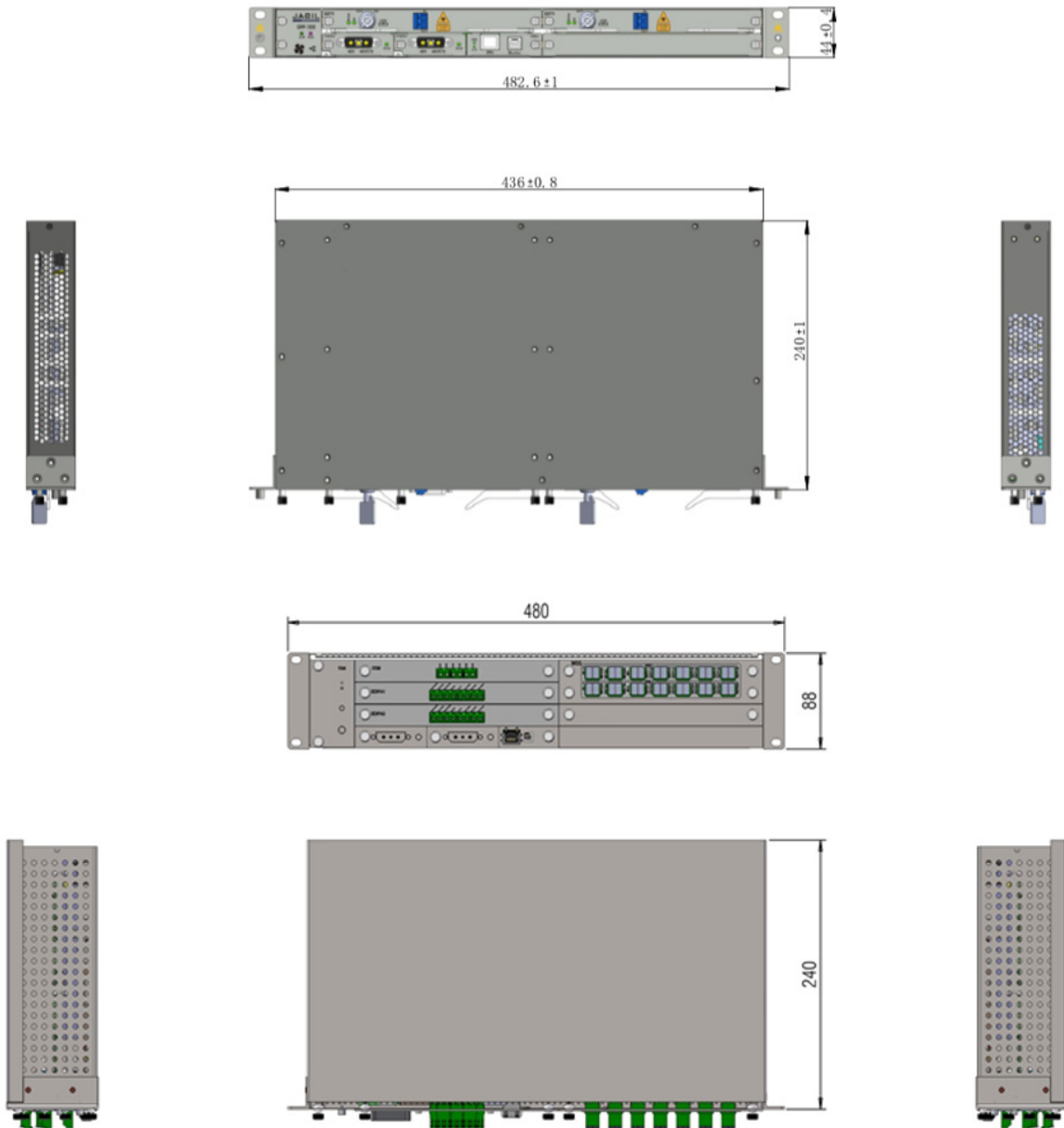
OPTICAL SPECIFICATIONS

| 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 |

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DIMENSIONS



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GPP PLATFORM (GENERAL PLUGGABLE PLATFORM)

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

For additional information and evaluation samples order, please contact:

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