

Optical transmission platform: OTP-3800



Overview

OPT-3800 optical transmission platform has fan cooling configuration, status display and monitor unit, and single power supply module in basic configuration, And forward optical transmission, forward optical receiving, reverse optical receiving, EDFA, optical switch, RF switch, forward driving amplification and power supply module are optional.

Features:

- 19" (3RU) standard chassis, it can save space and be easy to install.
- Each chassis has 12 slots with same function and each application module can be installed randomly.
- Open-rack design and the overall duct-type design of application module can be easy to dissipate heat in maximum, to improve the unit's reliability.
- Standard RJ45 network management telecommunication interface, easy to realize remote central monitor.

1. PS310 power supply module

With small volume, high efficiency energy conversion, small interference harmonic and large output power characteristics. The input power can be converted into +24DC, +5DC and -5DC. At most two PS modules can be configured.

Technical parameters

Input parameter	Input voltage		Maximum. current	
		AC 160V~265V (50Hz) or DC48V		2A
Output parameter	Output voltage	Maximum current	AC ripple	Voltage stability
	+24V	8A	50mVp-p	±1% (load changing range: 10%~100%, voltage changing range: AC 160V~265V.)
	+5V	13A	50mVp-p	
-5V	11A	50mVp-p		
General features	Operation temperature	Storage temperature	Relative humidity	
	-20°C~+55°C	-40°C~+65°C	Maximum 95% non-condensation	

2. OA series EDFA module

Features:

- Adopts 980nm pump laser and high-performance erbium doped fiber optimized combination, with low noise figure and good stability.
- With output optical power adjustable function, 4dB output power adjustable range, 0.1dB



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adjusting step, easy to debug and equipment backup.

- The pumping laser operation status adopts tri-color LED auxiliary instruction.
- Push-pull type module design, small and compact appearance, flexible and convenient loading and unloading.

Main technical index

Series No.	Items	Units	Technical parameter
1	The rated output optical power	dBm	13~22
2	Input optical power range	dBm	-3~+10
3	Operation wavelength	nm	1530~1565
4	Noise figure	dB	≤5
5	Optical connector type		SC/APC or FC/APC

3. FTX series forward optical transmission module

Features

- Optional high-performance DFB laser, narrow spectral line, good linearity and high output power .
- Both RF input ports in main and auxiliary input are in behind, the signal isolation between auxiliary input port and main input port is greater than 40dB.
- PS module, laser operation status and RF driving level status adopt tricolor LED auxiliary instruction separately.
- Push-pull type module design, small and compact appearance, flexible and convenient to load and unload.



Main technical index

Series No.	Items	Units	Technical parameter
1	Frequency range	MHz	47~862
2	Output optical wavelength	nm	1310±10
3	Output optical power	mW	4~30
4	RF input level (main input port)	dBuV	75~85
5	In-band flatness	dB	±0.5
6	C/N	dB	51
7	C/CSO	dB	60
8	C/CTB	dB	65
9	Optical connector type		SC/APC or FC/APC

4. FRRX series forward optical receiving module

Features

- RF output level of +4dB~-11.5dB, optional manual adjusting or automatic control function, and tri-color LED auxiliary instructing its operation status.
- Two optical receiving modules can be redundant backup receiver.
- RF output channel can be on or off through either manual control or network management software remote control.
- Plug-in type module design, small and compact appearance, flexible and convenient loading and unloading.
- The unit chassis of duct type design improves the unit's reliability great.



Main technical index

Series No.	Items	Units	Technical parameter
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1	Optical receiving wavelength range	nm	1100~1600
2	Input optical power range	dBm	+3~-5
3	Bandwidth	MHz	47~862
4	RF output level	dBuV	≥98
5	Manual output level adjusted range	dB	+4~-11.5
6	In-band flatness	dB	±0.5
7	C/N	dB	≥52
8	C/CSO	dB	>65
9	C/CTB	dB	>70
10	Optical connector type		SC/APC or FC/APC

5. 4RRX series four-way reverse optical receiving module

Features

- Each standard module contains four-way separate reverse return optical receiving channel, and mixed into two-way RF output, which can be composed of four-way separate receiver or two pairs of mutual backup receiver for the subscriber to select.
- Optical link loss automatic compensation or output level manual control can be optional, optical input power changes 15dB, RF output level unchanged.
- Four-way optical signal receiving power status separately adopts tricolor LED auxiliary instruction.
- 30dB output level manual adjusting range.
- Plug-in type module design, small and compact appearance, flexible and convenient loading and unloading.
- The unit chassis duct type design improves the unit's reliability greatly.



Main technical index

Series No.	Items	Units	Technical parameter
1	Input optical wavelength range	nm	1200~1600
2	Input optical power range	dBm	-26~+4
3	Bandwidth	MHz	5~200
4	Frequency response flatness	dB	±0.75
5	Output level adjusting range	dB	+10~-20
6	Output level	dBuV	95
7	Noise-power ratio (NPR) dynamic range	dB	≥20 (NPR≥30)
8	Input optical power display range	dBm	+4~-26
9	Optical connector type		SC/APC

6. OFS series optical switching switch module

Features

- Switching power threshold value can be adjusted in a larger range, the subscriber can adjust it in -12~+2dBm.
- The unit status, two-way input optical signal status separately adopts tri-color LED auxiliary instruction.
- Push-pull type module design, small and compact appearance, flexible and convenient to load





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and unload.

Main technical parameters

Series No.	Items	Units	Technical parameter
1	Operation optical wavelength	nm	1310±20 or 1550±20
2	The maximum output optical power	dBm	26
3	Insertion loss	dB	≤1.5
4	Switching time	ms	25
5	Switching power threshold	dB	The subscriber can adjust it in -12~+26 dBm
6	Control type	dB	Automatic control, manual control, remote control
7	Optical connector type		SC/APC or FC/APC

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