

AOS03VI Optical Platform



3RU Optical Transmission Platform



FEATURES

- Supports full 1.2GHz DOCSIS 3.1 spectrum
- High density, 3RU rack can be equipped with 18 modules
- Plug & play and hot-swappable modules
- Low power consumption
- Configure and monitor with fully-colored TFT LCD touch screen, SNMP or MIB files
- Build-in DWDM, the wavelength can selected from CH20 to CH59
- blind-mating F-type quick connector for fast installation
- Patented pre-distortion technology
- LED indicators on the front panel

OVERVIEW

ACE AOS03VI optical transmission platform is a broadband transmission platform of hybrid fiber-coax (HFC) network. It contains a series of hot-swappable modules: 1310nm and 1550nm transmitters, return path receivers, EDFA, system management module, and redundant power supply modules. It can be used in a various combinations according to requirements of each HFC network. Any of the application modules can be replaced easily, so maintenance time is reduced significantly. ACE AOS03VI control module enables users to fulfill computer-aided troubleshooting according to the status display information. All the fiber connection ports are located on the front panel of each module, while the RF ports and AC power input ports are on the rear panel. The blind-mating F-type quick connector allow fast installation and removal of application modules when the rack is powered on.

DOCSIS 3.1 READY

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AOT155D-60 transmitter



1.2GHz Direct Modulated 1550nm Transmitter Module

FEATURES

- 1.2GHz DOCSIS 3.1 Ready
- Direct modulated 1550nm
- Plug & play and hot-swappable modules
- DWDM ITU-T available
- DFB laser
- Up to 40 km



PARAMETER	SPECIFICATION	UNIT
Wavelength	1550±20 or ITU-T	nm
Optical Output Power	8, 10	dBm
Optical Power Steadily	±0.25	dB
Optical Return Loss	> 45	dB
Optical Connector	SC/APC	
RF Input Frequency Range	47 ~ 1218	MHz
RF Input Return Loss	≥16@45MHz ~ 550MHz / ≥14@550MHz ~ 1218MHz	dB
Level at Test Port	-20±1	dB
RF AGC	±5	dB
C/CTB	≥60	dB
C/CSO	≥55	dB
C/N	≥48	dB
MER	≥38	dB
Pre-distortion Compensation Distance	0 ~ 40, 1km stepping	km
Working Temp.	-10°C ~ +40°C	°C
Relative Humidity	15 ~ 95 (non-condensation)	%
Power Consumption	1 ≤ 15	W
Dimension	118.5 (H) × 22 (W) × 441.4 (D)	mm
Weight	0.8	kg

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AOT03-60 transmitter



1.2GHz Direct Modulated 1310nm Transmitter Module



FEATURES

- 1.2GHz DOCSIS 3.1 Ready
- Plug & play and hot-swappable modules
- Automatic and manual gain control (AGC/MGC)
- DFB laser

PARAMETER	SPECIFICATION	UNIT
Wavelength	1310±20	nm
Optical Output Power	8, 10	dBm
Optical Return Loss	>45	dB
Optical Connector	SC/APC	
RF Input Frequency Range	47 ~ 1218	MHz
RF Return Loss	≥16	dB
Level at Test Port	-20±1	dB
RF AGC	±5	dB
C/CTB	≥65	dB
C/CSO	≥62	dB
C/N	≥51	dB
Working Temp.	-20°C~+50°C	°C
Relative Humidity	15~95 (non-condensation)	%
Power Consumption	≤ 15	W
Dimension	118.5 (H) × 22 (W) × 441.4 (D)	mm
Weight	0.75	kg

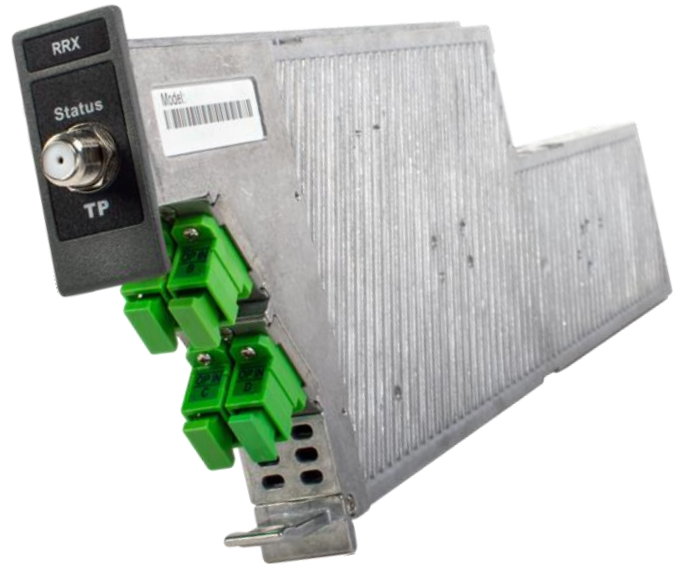
DOCSIS 3.1 READY

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AOR03R-60 receiver



204MHz Quad Wideband Receiver Module



FEATURES

- 204MHz DOCSIS 3.1 Ready
- Plug & play and hot-swappable modules
- Four independent receivers
- High output level

PARAMETER	SPECIFICATION	UNIT
Wavelength	1290 - 1610	nm
Reflection loss	Min. 40	dB
Input Optical Power	-18 - +1	dBm
Optical Connector	SC/APC	
RF Frequency Range	5 – 204	MHz
RF Output Signal Level	30	dBmV/ch
RF Return Loss	≥16	dB
Level at Test Port	-20±1	dB
Working Temp.	-20°C~+50°C	°C
Relative Humidity	15~95 (non-condensation)	%
Power Consumption	≤ 15	W
Dimension	118.5 (H) × 22 (W) × 441.4 (D)	mm
Weight	0.75	kg

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