

OPS1100 optical station

Description

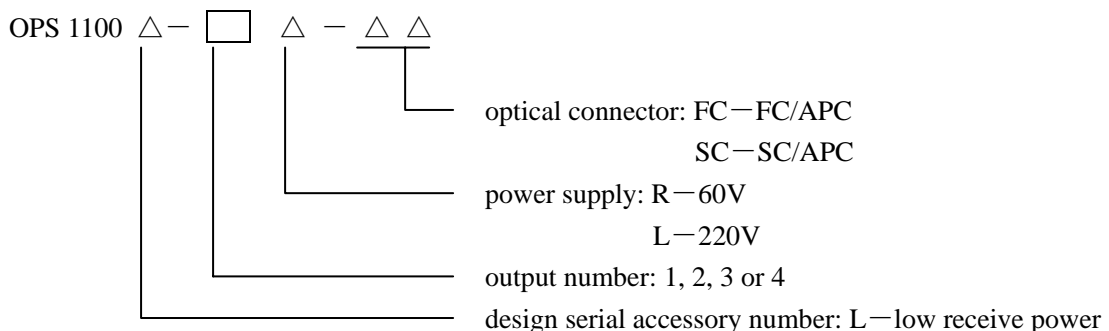
OPS1100 optical station can be used for the HFC network updating and reconstruction. Compact model, friendly optical fiber management, easily pluggable module and reasonable arrangement of RF port brings flexibility and expediently to system design and construction. The product design represent the latest technology in the world, high performance active photoelectric conversion module adopt ORTEL technology, amplification circuit adopt PDI or PHILIPS super linear broad band hybrid module, return path can use various optical laser, Advanced thermal structure design ensures high stability and long operating life of the unit.



Feature

- 862MHz super linear GaAs technology
- High-level output, output level will be 112 dB μ V(dual-port)or 108 dB μ V(quad-port) at 862MHz.
- Input optical power test point at 0.2mw/v; LED alarm for optical signal loss, easy to test optical circuit operation.
- AC60V remote or 220V local powering, high efficiency switching power supply
- Normal FP, IFP laser or IDFB optional Laser available
- The reverse optical module and the duplex filter module are able to be updated on-line.
- Friendly user's optical fiber management
- Reasonable arrangement of RF port, suspended install or put in the dedicated box
- Optional status monitor module
- Can be redesigned for user's special requirement

Product identification system



Specifications

Item	Note	OPS1100	Unit
Forward path			
optical characteristics			
Optical fiber		9/125/900	μ m
Optical receiver wavelength		1100~1600	nm
Optical return loss		>45	dB
Optical input power range		+3 ~ -7	dBm
Optical connector		SC/APC or FC/APC	
Input optical power test point		0.2	mW/V
RF output			
Frequency range		47~750/862	MHz
flatness		±0.5 (47~862MHz)	dB
Return loss		>16	dB
Output port	4	1~4	
output impedance		75	Ω
Output level	1,2,3,4	108	dB μ V
Test port		-20	dB
Link performance			
C/N	1,2,3	51	dB
CSO	1,2,3	-65	dBc
CTB	1,2,3	-66	dBc
Reverse path			
optical characteristics			
Type of laser		Isolated Fabry-Perot	
Optical wavelength		1310±20	nm
Output optical power		0 to +3	dBm
Fiber connector		SC/APC or FC/APC	
Output optical power test point		1	mW/V
RF input			
Frequency range		5~200	MHz
Slope		0 to -1	dB
Flatness		±0.5	dB
Return loss(75ohms)		16	dB
RF input test point		- 20	dB
RF driver level (from 5 to 65MHz)		76 (OMI≥6%)	dB μ V
Link performance			
NPR dynamic range		≥15(NPR≥30)	dB
Power supply			
AC operating voltage		38~65	V
Operation environmental temperature			
		- 25 ~ + 55	°C

- Notes
- 1: Optical receiver input power -1dBm.
 - 2: PAL-D/K 59 channels Chinese standard.
 - 3: Refer to OT7C&OT8C or TXA optical transmitter performance table.
 - 4: 4 output ports, each output 108dB μ V(@862MHz), output level slope 10dB. Flatness output 104 dB μ V.