SUN5000D Optical Transmission Platform

SUN5000D optical transmission platform is a intensive dedicated system equipment used in all kinds of photoelectric signal transmission for HFC network. Provide a transmitting and receiving integration platform for CATV headend and sub-headend.

Features

- 19'' 4U in size and is easy to install.
- Compatible all kinds of receiver, transmit and return module working together, configuration flexibility , plug and play for all function module .
- Multi-system combination, transmit, little space
- Inside CPU monitor all module working status, and accurate display system working parameter by VFD screen
- Intelligent fan design, effective control inside temperature rise, extending fan working life.
- Primary/spare power supply structure, adopt heat backup mode improve system reliability.
- Sound and light alarm when abnormal working state.
- Rear RJ45 interface realizing remote real-time condition monitoring, and update software online.
- Front RJ45 interface realizing software updating and test debug function.

Item	Name	Quantity	Remark
SUN5000D	Optical transmission platform frame （Including SUN5310C controller module, display key unit）	1	Necessary
WN370T220A	System power supplier	1	Necessary
WN370T220A	System power supplier (back-up)	1	Optional（suggested）
5311TB	Forward transmitter module	1～16	Optional #
SUN5311TC	Forward transmitter module	1～16	Optional #
SUN5311RB	Forward optical receiver module	1～16	Optional #
SUN5361RB	Return optical receiver module	1～16	Optional #
SUN5355A	Optical fiber amplifier module	1～16	Optional #

Note: 1 optical transmission platform with 16 pcs module plug-in slots, so it max for 16 module working at the same time.

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Specifications

SUN5311TB Forward transmitter module

SUN5311TB	SUN5311 TB-06	SUN5311 TB-08	SUN5311 TB-10	SUN5311 TB-12	SUN5311 TB-14	SUN5311 TB-16	SUN5311 TB-18	SUN5311 TB-20
Output Optical Power（dBm）	6	8	10	12	14	16	18	20
Expected Link Loss (dB) Note1	9.8	11.0	12.0	12.7	13.5	14.0	14.6	15.0
Optical Wavelength （nm）	1310±20							
Connector	SC/APC or FC/APC							
Optical Return Loss（dB）	>45.0							
Bandwidth	47-750/862/1000MHz							
RF Input Return Loss（dB）	>=16dB(47-550MHz) > =14dB(550-750/862/1000MHz)							
Flatness（dB）	±0.75							
AGC Arrange（dB）	>±5							
RF Input（dB）	-20(Relative to the input signal level)							
Test Port (dBμv)	75±2							
C/N（dB）Note2	>=51.0							
CSO（dB） Note2	>=60.0							
CTB（dB） Note2	>=65.0							

Note1: Expected link loss value is 10Km optical fiber add passive loss.

Note2: C/N、CTB、CSO are test meet the situation of expected link. Test with 98 channel signal generator, the output level of front 59 channels（47～550MHz）is 80±0.5dBuV, the output level of the rest 39 channels（550～750 MHz） is 70±0.5dBuV. Test regardless of the distortion from the receiver.

SUN5311RB Forward optical receiver module

Receive Optical Wavelength (nm)	1100～1600
Optical Connector	SC/APC
Receive Optical Power Range (dBm)	-10～+3dBm（typical value：-1dBm）
Broadband (MHz)	47～1000
RF output maximum level (dBμv)	102
RF output reflection loss (dB)	>=16(47～550MHz) >=14(550～1000MHz)
Flatness(dB)	±0.75
TEST port level(dB)	-20dB Output signal level
C/N(dB) Note	>=51.0
CSO(dB) Note	>=60.0
CTB(dB) Note	>=65.0

Note：

Test with standard optical transmitter, and under it's expected link loss value

Test with output level from 98 channels signal generator, the output level of front 59 channels（47～550MHz） is 80±0.5dBuV, the output level of the rest 39 channels（550～750 MHz） is 70±0.5dBuV

Receive optical power is -1dBm,RF output level is 98dBuV。

SUN5361RB Return optical receiver module

Optical Wavelength（nm）	1290-1620
Connector	SC/APC or FC/APC
Optical Return Loss（dB）	>50
Bandwidth	5-100MHz
RF Output Signal Level (dBμv)	>=70(-21dBm receiving)
RF Output Return Loss（dB）	>=16
Flatness（dB）	±1.0
Test Port Level	-20dBm Output Signal Level
C/N（Db）	>=51.0
CSO（dB）	>=60.0
CTB（dB）	>=65.0

SUN5355A Optical fiber amplifier module

SUN5355A	5355A -14	5355A -15	5355A -16	5355A -17	5355A -18	5355A -19	5355A -20	5355A -21	5355A -22
Output Optical Power（dBm）	14	15	16	17	18	19	20	21	22
Input Optical Power (dBm)	-3～10								
Optical Wavelength（nm）	1540～1560								
Output Optical Power Stability(dB)	<±0.2								
Polarization Sensitivity dB）	<0.2								
Polarization Mode Dispersion（PS）	<0.5								
Optical Reflect Loss（dB）	>=45								
C/N（dB）	>=50								
CSO（dB）	>=63								
CTB（dB）	>=63								
Optical Fiber Connector	FC/APC or SC/APC								
Noise Figure （dB）	< 5.0 (0dBm optical input)								

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