

## 0 SFP CHASSIS

### PRODUCT FEATURES

- High-Density: up to 10 SFP modules (20 Rx) in 1 RU chassis
- Energy Efficient: less than 1.5 W per return-path receiver module
- Hot-pluggable redundant power supply AC/DC
- Ethernet SNMP port on the rear panel
- USB-port for firmware update
- User-friendly GUI to monitor and configure the plugged-in modules
- Field-Replaceable Cooling Fan
- 20x75  $\Omega$  MCX RF outputs on the rear panel
- Power supply, MCX-F Adapter and Pull relief MCX connector need to be ordered separately



### APPLICATIONS

- DOCSIS 3.1 compatible
- Headend / Street cabinet equipment
- Full DOCSIS upstream range coverage 5 to 204 MHz

The DELTA Electronics SFP Chassis enables the operator to pack 20 Return-Path Receivers in one 1RU chassis. The Chassis can be installed into the 19" Rack or in a telecom street cabinet.

10 SFP modules can be inserted into the chassis simultaneously that support RFoG / HFC network.

The embedded web server allows monitoring and controlling each SFP receiver. The chassis can be connected to the internal network using the Ethernet port.

### Key Advantages

- DOCSIS 3.1
- Power consumption per receiver module less than 1.5 W
- HFC / RFoG networks compatible

The redundant power supply in the chassis makes a smooth power switching in case of a power outage.

The power supply can be provided in AC/AC, AC/DC, and DC/DC options. This gives a complete power redundancy solution in Headends or Hubs.

## RFoG / HFC SFP RETURN - PATH RECEIVER

### PRODUCT FEATURES

- DOCSIS 3.1 upstream compatible with operating bandwidth up to 204 MHz
- SFP module with two optical return-path receiver
- Automatic (AGC) and manual (MGC) RF level control
- 1260 nm to 1620 nm wavelength range
- LC / APC
- Power consumption < 1.5 W / module



The SFP has a very low power consumption, achieves a very high return path receiver density and it is compatible to DOCSIS 3.1 upstream.

The low power range SFP module is used for RFoG applications and the high power range SFP module is used for HFC applications.

Type		RFoG / OR SFP L	HFC / OR SFP H
<b>RF</b>			
RF bandwidth	MHz	5-204	
RF output level	dBμV	98 dBμV @ -22 ... -9 dBm @ OMI 8%/CH, QAM256, 8 MHz, rs: 6.9 MBaud	98 dBμV @ -9 ... +2 dBm @ OMI 8%/CH, QAM256, 8 MHz, rs: 6.9 MBaud
(3 dB Booster activated)		94 dBμV @ -22 ... -9 dBm @ OMI 5%/CH, QAM256, 8 MHz, rs: 6.9 MBaud	94 dBμV @ -9 ... +2 dBm @ OMI 5%/CH, QAM256, 8 MHz, rs: 6.9 MBaud
RF output stability	dB	± 1 dB @ OMI 8%/CH ± 1 dB @ OMI 5.7%/CH	
Attenuator	dB	31.5; 0.5 dB steps	
RF flatness	dB	± 0.75	
RF isolation	dB	57	
RF connectors		MCX	
<b>Optical</b>			
Wavelength	nm	1260...1620	
Optical inputs	dBm	-22...-7	-15...2
Equivalent input noise	pA√/Hz	<3	
Input return loss US	dB	45	
Connectors		LC/APC	
<b>General</b>			
Remote management		Web GUI / SNMP V2c (Ethernet port)	
1 RU 19" chassis power supply		110...240 VAC (50...60Hz) and/or -72 ... -36 VDC	
SFP power consumption	W	1.2	
Operating temperature	°C	0...+55	
Storage temperature	°C	-40...+85	
Dimensions	mm	286 x 482.6 x 43.6	
Enclosure classification		IP 20	