



# SML01-10G-SXX

## 10G 3R Transponder with Optical Line Protection

The SML01-10G-SXX is a 10G fiber to fiber 3R repeater and transponder. Based on 10 Gigabit Fiber standards, the transponder support SFP+ to XFP (SX) or XFP to XFP (XX) fiber connections. 1+1 Automatic optical line Protection Switching is supported for the aggregate XFP fiber ports. The transponder is protocol transparent, providing 3R (Re-amplification, Re-shaping and Re-clocking) regeneration between these different optical module types. One of the major applications for this converter is in connecting proprietary transceiver equipment to CWDM or DWDM when these 'colored' optical modules are not available for the proprietary equipment. With transparent bi-directional forwarding capability between the 2 fiber media, the SML01-10G-SXX brings you the best and simplest solution for your 10G conversion between fiber and fiber.

### Features

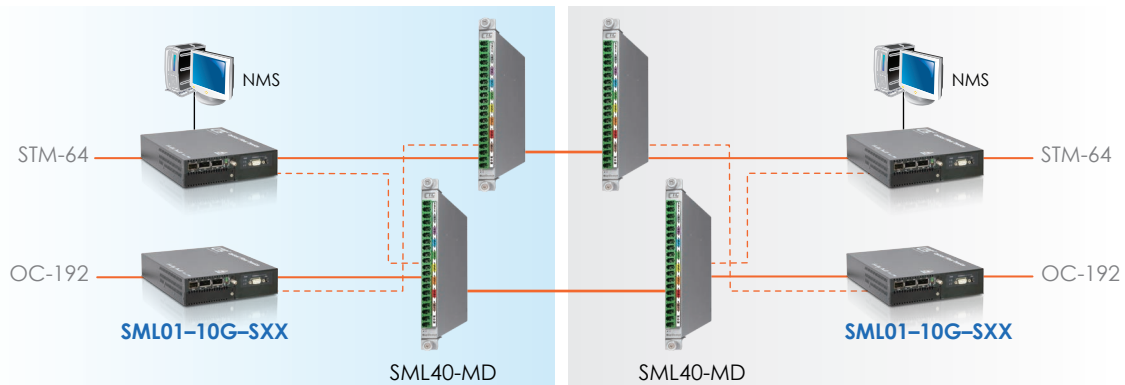
- Multiple protocol supported 10G Ethernet, STM-64, OC-192, G.709 OTU2, Fiber Channel (8 x FC)
- Network management via Web, Telnet, SNMP with NMC card inserted
- Protocol transparent 3R fiber media transponder / repeater (Re-amplification, Re-shaping and Re-clocking)
- Promotes flexibility and eases management with pluggable SFP+ or XFP transceiver
- Features two 10G ports offering multiservice 10G transponder and regenerator function
- Built-in self test (BIST) function
- Provides superior optics capabilities resulting in extended transport distances for regional application.
- Extend 10G Ethernet transmission over fiber useful as a 'Transponder' in CWDM or DWDM systems for 10G Ethernet/ Fiber Channel/STM-64
- Supports Client / Line loop back tests
- Serial console for stand-alone management
- XFP power supplies: +5.0V, -5.2V, +3.3V and +1.8V
- Supports reference clock output
- Supports 1+1 optical line protection

### Specifications

Optical Interface	Connector	LC
		1x Line SFP+ to 2x Client XFP 1x Line SFP+ to 1x Client XFP 1x Line XFP to 1x Client XFP
Traffic Format		OC-192/STM-64 (9.95328Gbps)
		1 Gigabit Ethernet (1.25Gbps)
		10 Gigabit Ethernet LAN(10.3125Gbps)
		G.709 OTU2 (10.709225Gbps)
		Fiber Channel
Regeneration		1xFC(1.062 Gbps); 2xFC(2.125 Gbps); 4xFC(4.25 Gbps); 8xFC(8.5 Gbps); 10xFC(10 Gbps)
		Re-amplification
		Re-shaping, Re-timing

Optical Interface	Loopback	Line / Client
	Fiber	SM 9/125µm MM 50/125µm or 62.5/125µm
	Wavelength	Depends on SFP+ or XFP
Indications	LED (Power, Line Link, Client Link, Test, Loop back, Port Active, Alarm)	
Power Input	Standalone : AC, DC option	
Power Consumption	<10W	
Dimensions	155 x 88 x 23mm ( D x W x H)	
Weight	150g	
Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)	
Humidity	10 ~ 90% non-condensing	
Certification	CE, FCC, RoHS compliant	
MTBF	65,000 hrs	

### Application



### Ordering Information

Model Name	Description
SML01-10G-SXX-AC, DC, AD	Console management, standalone 10G 3R transponder with AC, DC or AD (AC+DC) Power
SML01-10G-SXX-NM-AC/DC/AD	SNMP management, standalone 10G 3R transponder with AC, DC or AD (AC+DC) Power

Note: SML01-10G-SXX-AC, DC, AD = (FRM220-10G-SXX) + (CH02M-AC, DC or AD)  
SML01-10G-SXX-NM-AC, DC, AD = (FRM220-10G-SXX) + (CH02/SNMP-AC, DC or AD)

Power Type  
**SML01-10G-SXX** -    
 Example: SML01-10G-SXX - AD