

...designed for perfect signals

S and C Band EcoLine FiberLink

The EcoLine TX/RX10G-EL and Modules represent a cost-effective RF over Fiber solution designed in a compact form allowing a handheld operation as well as population in a 1RU/19" chassis in a locally managed Environment.

EcoLine TX/RX10G-EL modules allow a conventional unidirectional links for S and C Band application.

- ▶ Space saving handheld box with an external PSU
- ▶ Could be in EcoLine V8 Chassis populated
- ▶ 1310nm Wavelength as unidirectional variant
- ▶ Unity Gain
- ▶ 2GHz – 10GHz



TECHNICAL SPECIFICATIONS

EcoLine V8 1RU/19" Chassis

Dimensions:	1RU/19" (260mm deep)
Power Supply:	85 – 265V, 50/60Hz, dual 1:1 redundancy on request
Power Consumption:	<10W (1RU/19")
Slots:	Eight front side slots for different modules
Operating Temperature:	0°C to 45°C
Storage Temperature:	-10°C to 70°C
Humidity:	90%, non-condensing
RoHS:	Compliant

Transmit Module TX10G-EL

Frequency Range:	2GHz – 10GHz, optionally 10MHz – 10GHz on request
RF Input Connector:	Frontside
Optical Output Connector:	SC/APC
Fiber Type:	Single mode 9/125
RF Input Power Level:	+20dBm max. (damage level)
Frequency Response:	±2dB typ., ±2,5dB max.
Return Loss:	14dB typ.
Noise Figure:	24dB
Laser Type:	DFB Laser, Class 1M, 1310nm
Optical Output Power:	3mW
Status LED's:	OK, Fail, Stand-By
Operating Temperature:	0°C to 45°C
Storage Temperature:	-10°C to 70°C
Humidity:	90%, non-condensing
RoHS:	Compliant

Receive Module RX10G-EL

Frequency Range:	2GHz – 10GHz, optionally 10MHz – 10GHz on request
Optical Input Connector:	SC/APC
Fiber Type:	Single mode 9/125
RF Output Connector:	50Ohm SMA
Optical Input Power Level:	-5dBm (min. optical sensitivity)
Frequency Response:	±1,5dB typ., ±2,0dB max.
Return Loss:	14dB typ.
Input 1dB Compression:	13dBm
Input 3rd Order Intercept	28dBm
IMA3:	-75dBc
SFDR:	< -107dB/Hz
Operating Wavelength:	1290nm – 1560nm
RF Output Power:	+5dBm max.
Status LED's:	OK, Fail, Stand-By
Operating Temperature:	0°C to 45°C
Storage Temperature:	-10°C to 70°C
Humidity:	90%, non-condensing
RoHS:	Compliant

Type	Type-No.:	Short Description	Optical I/O Connector	Frequency Range
TX10G-EL	9001365	2 -10GHz Optical Transmitter Module 1310nm, SMA(f), SC/APC	SC/APC	2 – 10GHz
RX10G-EL	9001366	2 - 10GHz Optical Receiver Module 1290-1560nm, 50Ohm SMA(f), SC/APC	SC/APC	2 – 10GHz
EcoLine V8 Chassis	9001358	Eight Slot Chassis for EcoLine Modules, Red. PSU		