

Quad RF-over-Fiber TX Outdoor System

The QLink2 TX-System represents a compact and modular Quad outdoor RF-over-Fiber system that can be populated with up to 4 optical TX (transmit) modules. The system allows secure and high quality optical transmission of RF signals in L-Band and Extended L-Band over a distance of up to 5km. The outdoor enclosure is designed to be mounted directly at the antenna mast.

The System furthermore comes with beneficial features such as variable gain-control, RF power monitoring, laser monitoring, switchable LNB-supply and 1:1 redundant dual power supply.

Local configuration and monitoring of the QLink2 system can be done via its front panel LC-Display/keypads.

The QLink2 system is a versatile, space and cost efficient outdoor optical transmission solutions perfectly suited for applications in Teleports, Satellite Earth Stations, Broadcast- and Broadband facilities.



Functional Diagram 4 x optical TX (transmitters)



TECHNICAL SPECIFICATIONS

QLink2 Outdoor Chassis

Dimensions:	40 x 30 x 18 cm
Protection Rating:	IP65 specified
Mounting:	Antenna mast mount (includes mast mount clamps)
Power Supply:	85 to 265V, 50/60Hz, 1:1 redundant (via Neutrik Waterproof Connector)
Power Consumption:	<20W
Frequency Range:	850 – 2450MHz (Extended L-Band)
Output Return Loss:	4 x 75Ohm F(f)
TX Module Capacity:	Max. 4 Extended L-Band TX modules FLT3051
TX Monitoring:	RF power monitoring, laser monitoring local
Local Configuration:	Front panel LC-Display/keypads
Operating Temperature:	-10°C to 45°C
Storage Temperature:	-10°C to 70°C
Humidity:	90%, non-condensing
RoHS:	Compliant

QLink2 TX Module FLT3051 (Extended L-Band 850 – 2450MHz)

Frequency Range:	850 – 2450MHz (Extended L-Band)
Optical Output Connector:	SC/APC
RF Input Power Level:	+10dBm max. (damage level)
Frequency Response:	±1,0dB typ., ±1,5dB max.
Return Loss:	14dB typ.
Laser Type:	DFB with Isolator
Laser Class:	1M
Operating Wavelength:	1310nm ±5nm
Optical Output Power:	+3dBm min. (other settings upon request)
SFDR:	-107dB/Hz typ.
Variable Gain Control:	±10dB (1dB steps)
Switchable LNB-Supply:	13/15/18VDC, 22kHz tone, 450mA max (current monitoring)
RF Power Monitoring:	60dB dynamic range
Operating Temperature:	-10°C to 45°C
Storage Temperature:	-10°C to 70°C
Humidity:	90%, non-condensing
RoHS:	Compliant

ORDER INFORMATION

Outdoor TX Enclosure, IP65, QLink2-ODB-75F

Type	Type No.:	Short Description
QLink2-ODB4S	9000977	QLink2 Outdoor Box, IP65, 4 slots for max. 4 TX (transmit) module FLT3051-75F, LC-Display/ keypads, 1:1 redundant dual power supply
FLT3051-75F	on request	Optical TX module for QLink2-ODB4S outdoor enclosure, extended L-Band 850 –2450MHz, RF input 75Ohm F(f), Optical Output SC/APC, variable gain control, switchable LNB-supply, RF power monitoring