



# QLink2

...designed for perfect signals



## 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

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



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

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