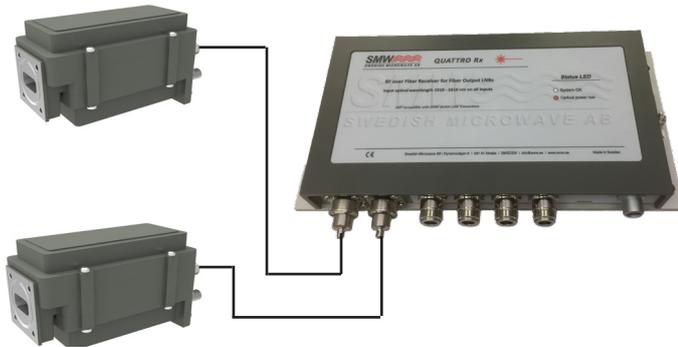


# Fiber output LNBs Quattro receiver

## Key features



- High RF and Optical performance
- Fully analog (no field setup)
- Fully outdoor proof (IP 67)
- 4 RF channels 1310nm
- Up to 20 km distance (optional 40 km with 1550 nm)

### Description

Fiber Output LNBs are available for X-band, Ku-band and Ka-band. Together with the optical Quattro receiver a complete optical fiber system is available. High performing LNBs with optional Ultra Low Phase Noise and Internal  $\pm 10$ kHz or Ext. 10MHz reference.

Single frequency conversion and direct modulated 1310 nm DFB lasers for top performance. Up to 20 km link distance with 1310 nm or as option up to 40km with 1550nm , depending on link budget, with very high C/N maintained.

### Fully Outdoor Proof, IP67

- Fully sealed high quality Q-ODC fiber connectors.
- $-40^{\circ}$  to  $+70^{\circ}$ C operating temp. range.
- All parts designed to withstand outdoor environmental conditions long term.

### Features

- Compact size and low power consumption.
- AGC - Automatic Gain Control and optional Fixed Gain for large antennas and Beacon applications.
- RF monitor out on LNB for antenna setup and DC supply via choice of N-, F- or SMA-connectors.
- Fiber output LNBs are compatible with both SMW Quattro Rx and Versa-Link Rx receivers.
- SMW Fiberoptics are compatible with many other manufacturer's corresponding indoor devices.

### Applications

- When LNB signals need to be distributed over long distances, example weather redundance systems
- When coaxial cables gives to much tilt in the IF band

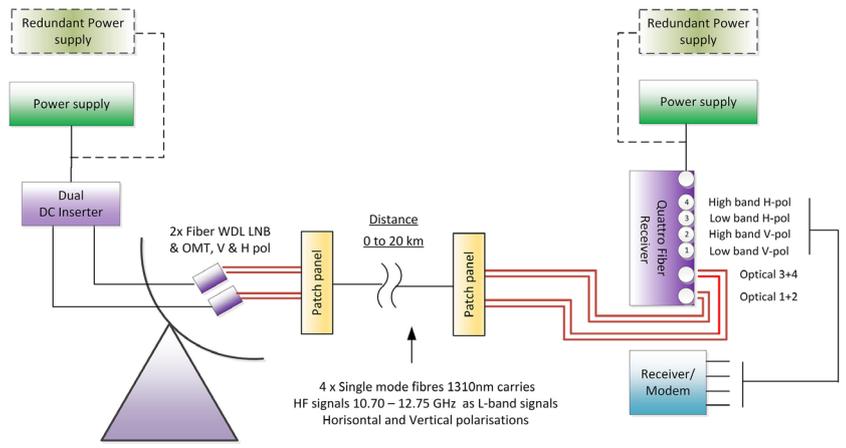
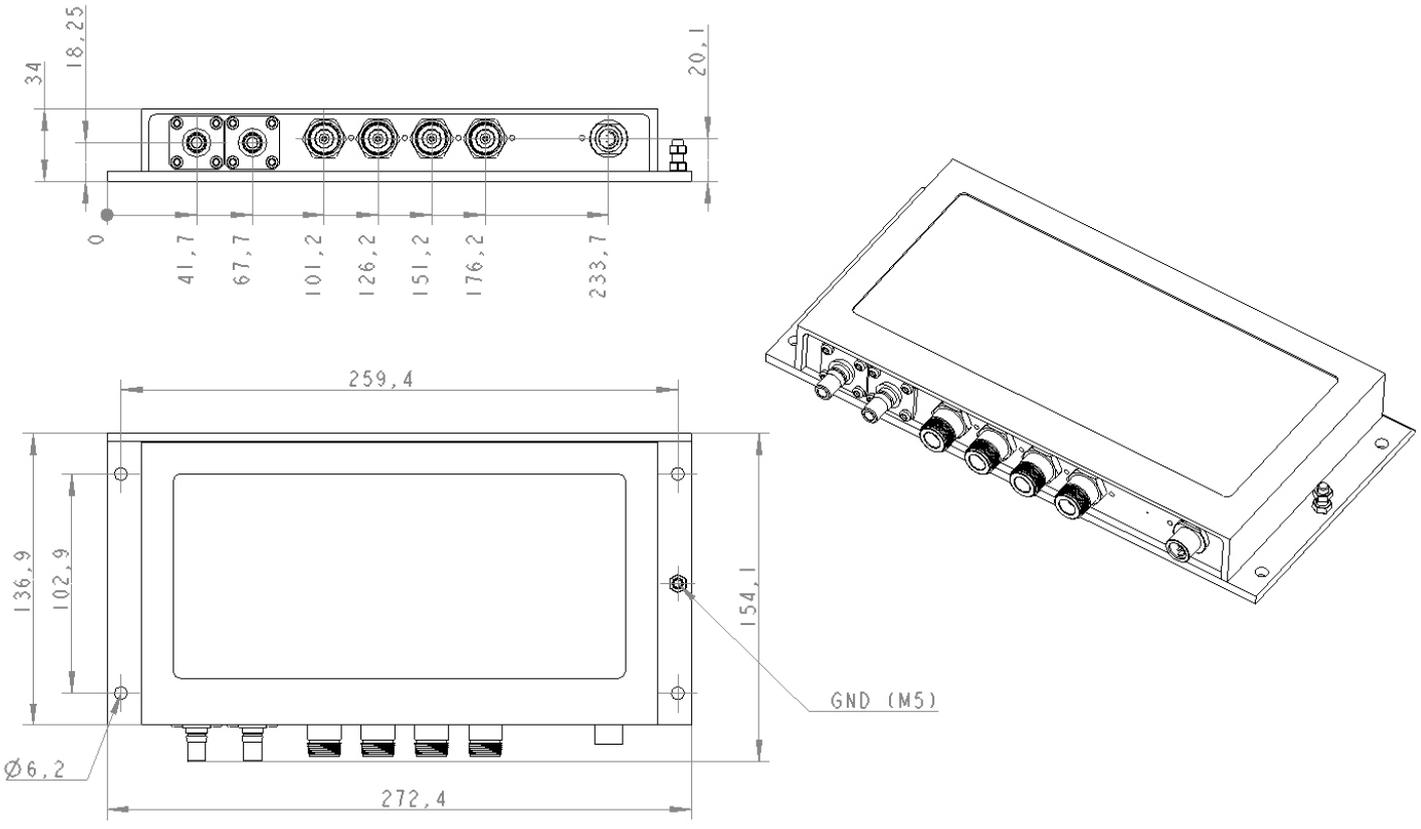
# Fiber output LNBs Quattro receiver

## Technical specifications

Quattro Receiver		
GENERAL	RF output Frequency	290 - 3000 MHz
	DC cable	Standard 3 x 0,75 mm <sup>2</sup> , 15 meter cable with Fischer connector, Fischer * 103 series, Circular IP 68 sealed
	Power consumption	4 W max.
	Dimensions	273 (L) x 154.4 (W) x 34.4 (H) mm
	Weight	1890 g (SMA- & F-connectors), 1950 g (N-connectors)
	Temperature Range	Storage and Operating -40 to +80°C, -40 to +176°F
	Ingress protection code	IP 67, Q-ODC connector only IP67 when mated with dust cover or Q-ODC cable connector
	System gain variation	± 0.20 dB within 30 MHz, ± 1 dB @ 950 - 2150 MHz, ± 3 dB @ 290 - 3000 MHz max.
	Standards compliance	Optical interface: EIA/TIA 568, ITU std. G694.2; EMC: EN 55013:2013, EN 55020, EN 300 386; Safety: EN 60950-1, EN 60950-22, EN 60065:2002
Miscellaneous	Pigtail DC cable 15 meter with Fischer connector. Custom length available as option	
INPUT	Input level Optical	-6 dBm to +5 dBm
	Input wavelengths	1310 - 1630 nm, single mode
	Input connector optical	Dual fiber, Single mode Huber & Suhner, Q-ODC
	DC input	+12 to +28 Volt
INTERNAL	RF gain Tx	User adjustable, -10 dB to +10 dB, factory set 0dB @ 100 meter fiber cable
	System noise figure	15 dB typ.
	System C/N Single carrier	> 56 dB @ 30 MHz
	System C/N 40 transponders	> 33 dB @ input level -15 dBm (composite level)
OUTPUT	Output return loss/VSWR	max. -10 dB / 1.9:1 with N / SMA connector, max. -8 dB / 2.3:1 with F connector
	Output IP3 RF	+30 dBm typ.
	Output RF connector	F, N or SMA female
OTHER	Cables	Outdoor to Outdoor fiber cables ( Q-ODC to Q-ODC ), Outdoor to indoor patch cables
	Accessories	Power supply (AC/DC), Dual DC inserter, External 10 MHz ref. oscillator
	Options	Custom DC cable length

# Fiber output LNBS Quattro receiver

## Technical Drawing



Professional Satcom Frequency Converters & Components. All products are fully CE and RoHS compliant and every unit includes full documentation of performance tests and quality control. Please contact sales@smw.se to configure or customize the unit to your needs. Visit smw.se or scan QR code to see our full product range and request a quote.



Technical specifications are typical, for specific part number specifications, please contact us. Specifications are subject to change without prior notice. Products from Swedish Microwave AB are made for commercial use. Swedish Microwave AB | Dynamovagen 5 | S-591 61 Motala | Sweden | Contact: +46 141 21 61 35 | sales@smw.se | smw.se