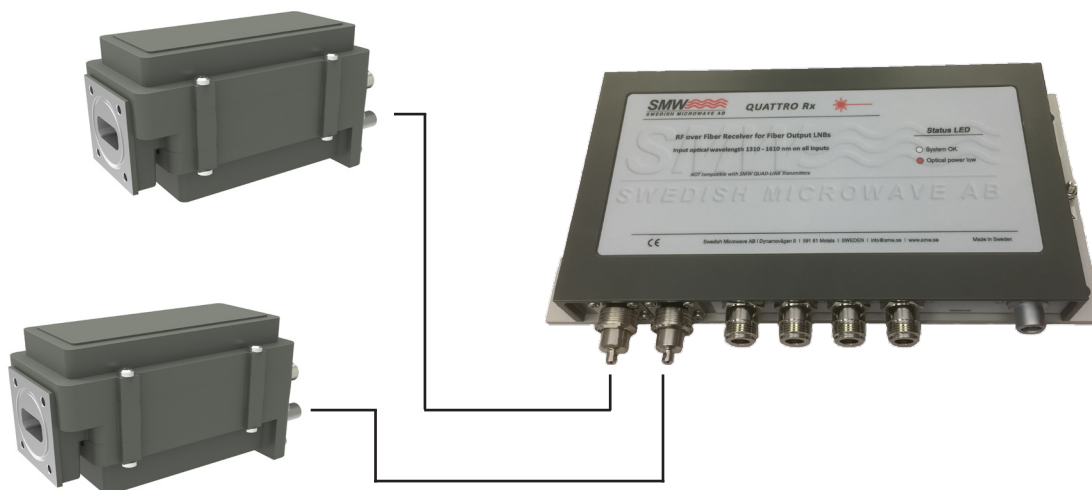


## Fiber output LNBS optical Quattro Receiver

Innovative Fiber optic output  
LNB Receiver System



### TECHNICAL SPECIFICATIONS

MODEL:	Quattro Fiber optic receiver
RF Output Frequency	290 - 3000 MHz
Input Level / Channel	-6 dBm to + 5 dBm
Optical Inputs	1310 - 1630 nm
System Gain Variation	± 0.20 dB within 30 MHz, ± 1 dB @ 950 - 2150 MHz, ± 3 dB @ 290 - 3000 MHz max.
System Noise Figure	15 dB typ.
Output IP3	+30 dBm typ.
Output Return Loss / VSWR	max. -10 dB / 1.9:1 with N / SMA connector, max. -8 dB / 2.3:1 with F connector
System C/N, Single Carrier	> 56 dB @ 30 MHz
System C/N, 40 Transponders	> 33 dB @ input level -22 dBm (each transponder)
Fiber Input Connectors	Dual fiber, Single mode Huber & Suhner, Q-ODC
RF Output Connectors	F-type 75Ω / N-type 50Ω / SMA-type 50Ω
DC Connector	Fischer® 103 series, Circular IP 68 sealed
DC Input	+12 to +28 V
Power Consumption	4 W max.
Temperature Range	Storage and operating: - 40° to + 80° C
Dimensions	273 (L) x 154.4 (W) x 34.4 (H) mm, for drawing, see <a href="http://www.smw.se">www.smw.se</a>
Weight	1890 g (SMA- & F-connector), 1950 g (N-connector)
Ingress Protection Code	IP 67, Q-ODC connector only IP67 when mated with dust cover or Q-ODC cable connector
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
Options	DC connector type, 10 MHz connector type, No LNB DC supply
Miscellaneous	Enclosed DC cable 15 meters with connector.
Accessories	Outdoor fiber cables ( Q-ODC to Q-ODC ), Outdoor to indoor patch cables (different connector type and lengths), External 10 MHz ref. oscillator, Dual DC Inserter, Power Supply Unit (AC to DC), Custom DC cable length.

Specifications are subject to change without notice. Products from Swedish Microwave AB are made for commercial use.

Rev.11-20-4C

# Fiber output LNBS optical Quattro Receiver

Fiber Output LNBS are available for

- X-Band
- Ku-Band
- Ka-Band

## Specifications

- See each frequency band section for full technical specifications.

## Highest RF and Optical performance

- Top 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 single mode fiber cable distance depending on link budget. Link distance up to 40 km with optional 1550 nm laser. Free Link budget calculation support available on request.

## Fully Outdoor Proof IP67

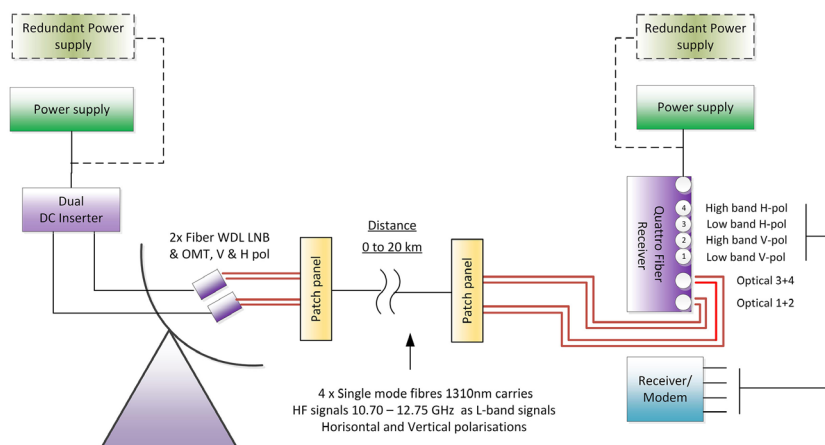
- Fully sealed high quality Q-ODC fiber connectors.
- $-40^{\circ}$  to  $+70^{\circ}$ C operating temp. range.
- All parts designed to withstand outdoor environmental conditions long term.

## 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.

## Application example

- Two Ku-Band WDFL PLL LNB in Quattro configuration and the Quattro receiver receives full Ku-Band and both H- and V-polarizations and virtually no loss from antenna to receiver via optical fiber.



**NOTE: Fiber cables can be ordered as patch cables or Q-ODC to Q-ODC cable**

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Rev.04-20-1C