

Product overview

Increasing Spectrum Efficiency Up to 2 Gbps throughput in 112MHz Enhanced Connectivity & Extension Possibilities. Suitable with all SkyLinks ODU/RFU range from 2 to 43 GHz, and with all OEM ODU on the market.



Main Features

- FPGA-based Software Defined Radio.
- Eight modulation formats (4-, 16-, 32-, 64-, 128-, 256-, 512-, and 1024-QAM).
- 7,14, 28, 56, 112 MHz channel BW support
- Adaptive modulation switching based on channel measurement and internal service channel signaling.
- TX and RX I/Q impairments recovery (amplitude and phase unbalance).
- Timing recovery with digital re-sampling.
- Carrier recovery with pilot symbols for improved robustness to phase noise.
- Automatic frequency recovery for fast carrier acquisition.
- 21-tap adaptive fractionally spaced equalizer.
- Efficient LDPC coding scheme.
- Optional asynchronous XPIC and Combiner.
- User definable service channel for closed-loop communication between transceivers
- 4 x Gigabit port
- 1+0/1+1/2+0 Configuration Support
- Modular system offering 2+0 in single 1U rack.
- Double and redundancy power supply (-48/220V)

System Option

- SDH Options
 - 2 x SDH STM-1/OC-3 SONET
- PDH Options
 - Up to 64 x E1/T1
- Support for multiple configurations for both PDH and SDH
 - 1+0, 1+1 protection/diversity
 - Hot Standby
 - East/West Repeater (2 + 0), XPIC

System Applications

- Any G-Mobile backhaul for Access and Aggregation
- Emergency wireless links
- Last mile fiber extension for business customers
- ISP High Capacity LAN to LAN connections
- Complementary solutions for fiber deploy

Bandwidth/ Modulation	7MHz	14MHz	28MHz	56MHz	112MHz
QPSK	12 Mbps	25 Mbps	50 Mbps	100 Mbps	200 Mbps
16-QAM	25 Mbps	50 Mbps	100 Mbps	200 Mbps	400 Mbps
32-QAM	31 Mbps	62 Mbps	125 Mbps	250 Mbps	500 Mbps
64-QAM	37 Mbps	75 Mbps	150 Mbps	300 Mbps	600 Mbps
128-QAM	43 Mbps	87 Mbps	175 Mbps	350 Mbps	700 Mbps
256-QAM	50 Mbps	100 Mbps	200 Mbps	400 Mbps	800 Mbps
1024-QAM	62 Mbps	125 Mbps	250 Mbps	500 Mbps	1 Gbps

Dimensions	IDU: 19" standard rack (1U), 445 x 238.5 x 44.5mm
Weight	IDU: 4 Kg;
Operating Temperature	IDU: -5° to +45°C;
Altitude	Up to 4500 meters
Humidity	IDU: 95% condensing;
Power Input	-48V DC (-36V to -60V DC) or 220V AC
Power Consumption	IDU: < 25 watts;
Cooling	Air forced Cooled
Coaxial Interfaces	ODU N-type female
IDU-ODU Cable	Belden 9913/RG-8, up to 300m
Standards Compliance	ETSI EN 302 217

Support	SNMP, Fully featured MIB, WEB based GUI, Embedded HTML server,
Local Access	Ethernet 10/100 Base-T / RJ-45
Control Channel	In band