ALCOMA AL80GE

Technology for the Next Generation Networks

The Easiest
The Fastest
The Most Complex

70 / 80 GHz | 1.25 Gbps

Features

- Unlicensed / Licensed band 71–76 / 81–86 GHz
- Transmission capacity 1.25 Gbps
- 2× Gigabit Ethernet Optical / Electric interface
- Typical link distance 5 km for 99.99% availability (H: 32 mm/h)
- Low Latency for multimedia applications < 12 µs
- Jumbo packets up to 10,240 Bytes
- Automatic TX power control (ATPC)
- All-Outdoor design with 0.35 / 0.65 m antenna
- Full overvoltage protection of ODU unit

Management

- Proprietary network management system ASD
- SNMP protocol
- WEB interface
- SQL database
- Independent diagnostic channel
- Command line Interface
- Software configurable
- System Configuration 1+0 or 1+1

Applications

- WiMAX / LTE / 4G backhaul
- Local / Metropolitan / Wide area networks
- IPTV distribution
- Replacement of an optical cable

Ethernet

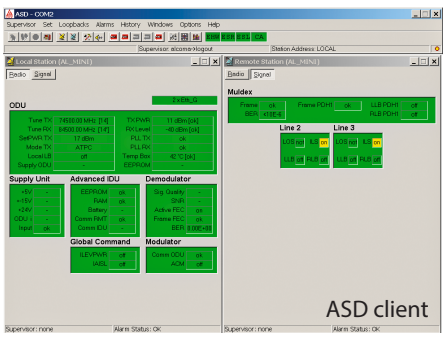
- QoS support (VLAN p-bit / DSCP / port priority)
- Full support of VLAN and QinQ (802.1q, 802.1ad)
- Two independent data lines through radio link
- Ethernet port shutdown when the radio link is bad

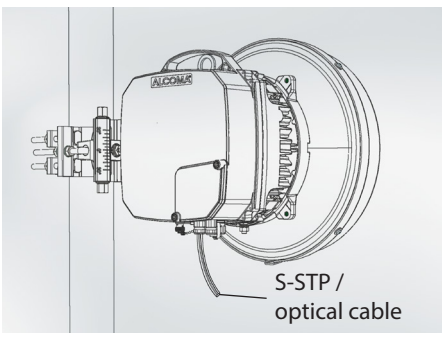
Protected Terminal Box

- Overvoltage protection
- Can be mounted to DIN rail TS 35
- Can be installed in rack
- Three boxes can be joined together and installed as standard 1U 19“ rack unit

ODU with antenna

Overvoltage Protected Terminal Box for 3 Terminals


ASD client


S-STP / optical cable

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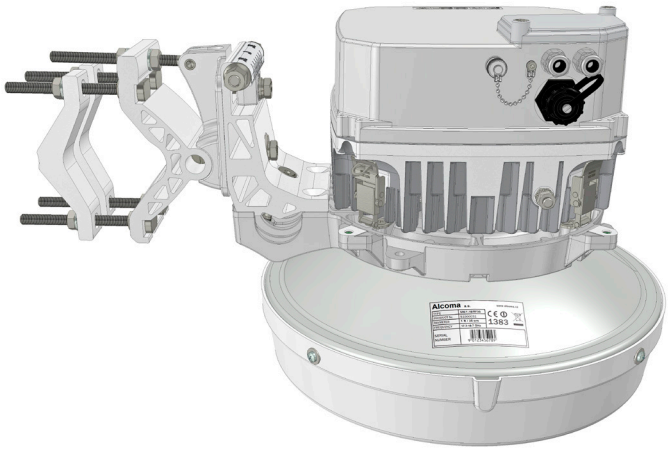

New UNI® Antenna

General	AL80GE
Frequency Band (GHz)	71–76 / 81–86
Modulation	DBPSK
RF Interface	FDD
Data Rate total/user (Mbps)	1250 / 1000+150 full duplex
Latency (µs)	12
System Configuration	1+0, 1+1
Radio	
Transmit Power Output max. (dBm)	+20
Automatic Transmit Power Control	ATPC
Frequency Stability	< ±10 ppm
Forward Error Corection	Reed-Solomon
RX Sensitivity BER=10^{-6} (dBm)	–63
User Interface	
Standards Compliance	IEEE 802.3z
Interface	2× 1000Base-T, connector RJ-45, VLAN, packets up to 10,240 bytes Auto Negotiation or manual setting 1000/100/10 Full / Half Duplex, Flow Control, Auto MDIX, Master / Slave, QoS
Option	fiber optic 1000Base-SX / 1000Base-LX / Fiber LC connector or 1000Base-BX10
Management	
	Diagnostic channel with Ethernet / RS-232 interface
	Proprietary Network Management System ASD, SNMP protocol ver. 1
Antennas	
0.35 m Mid Band Gain (dBi)	45.4
0.65 m Mid Band Gain (dBi)	50.8
Polarization	Vertical / Horizontal
Power supply	
=48 V (V)	+36 to +72
Power Consumption (W)	up to 40
ODU-Terminal Box	S-STP Cat.7 cable up to 100 m length
Operating Temperature	
ODU (°C)	–33 to +55
Overvoltage Protected Terminal Box (°C)	–5 to +50
ODU Dimensions and Weight	
Width × Height × Depth (cm)	25.5 × 30.9 × 17.5
Weight (kg)	6.4

ver. 141003

For more technical information please see www.alcoma.com.

TÜV SÜD ISO 9001

ALCOMA

ALCOMA a. s. is a leading designer and producer of microwave radio relay links from the Czech Republic. The company was founded in 1993. All production is manufactured in its own factory in Prague.

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