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 (Rain zone 32 mm/h)
- Low Latency < 12 µs
- Jumbo packets up to 10,240 Bytes
- Automatic TX power control (ATPC)
- All-Outdoor design with antennas 0.35 or 0.65 m
- Full overvoltage protection of ODU unit

Management

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

Protected Terminal Box

- Full overvoltage protection
- Optional redundant power feeding
- DIN rail or rack mount compatible
- Compact 1U rack unit for 3 terminal boxes

Ethernet

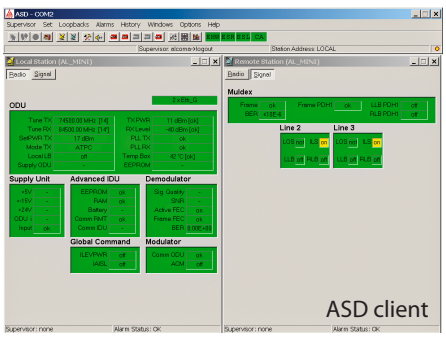
- QoS support (VLAN p-bit / DSCP / port priority)
- Full support of VLAN and QinQ (802.1Q, 802.1ad)
- Two independent Ethernet lines through radio link
- Ethernet port shutdown when the radio link is bad

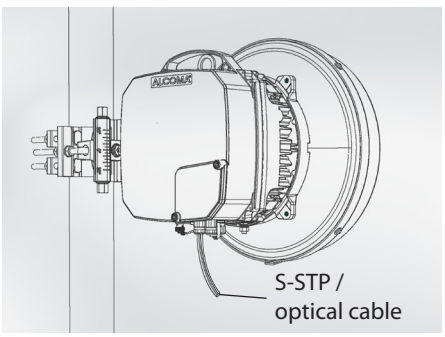
Applications

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

ODU with antenna

Compact 1U rack unit for 3 terminal boxes


ASD client


S-STP / optical cable

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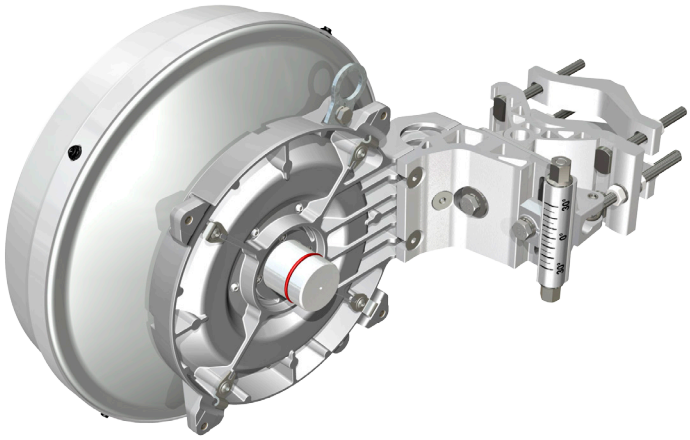

General	AL80GE
Frequency Band (GHz)	71–76 / 81–86
Modulation	DBPSK
RF Interface	FDD
Data Rate total/user (Mbps)	1250 / 1000+150 full duplex
Latency (µs)	12
System Configuration	1+0, 1+1
Radio	
Transmit Power Output max. (dBm)	+20
Automatic Transmit Power Control	ATPC
Frequency Stability	< ±10 ppm
Forward Error Corection	Reed-Solomon
RX Sensitivity BER=10^{-6} (dBm)	–63
Interfaces	
Interface	1–2× 1000Base-T, 1× 1000Base-SX/LX/BX10
Management	
	In band / out of band management, Ethernet / RS-232 interface
	Advanced management system ASD / SNMP v1
Ethernet	
	Flow Control, QoS (802.1p), VLAN (802.1Q), QinQ (802.1ad), MTU 10240 B
ALCOMA Antennas	
0.35 m Mid Band Gain (dBi)	45.5
0.65 m Mid Band Gain (dBi)	51
Polarization	Vertical / Horizontal
Power Supply and Cabling	
Range (V)	36 to 72 DC, floating ground
Power Consumption (W)	up to 40
ODU connection	S-STP / S-FTP Cat.7 cable up to 100 m length / optical fiber
Operating Temperature	
ODU (°C)	–35 to +55
Overvoltage Protected Terminal Box (°C)	–25 to +50
ODU / Terminal box Dimensions and Weight	
Width × Height × Depth (cm)	25.5 × 30.9 × 17.5 / 14.7 × 16.3 × 4.4
Weight (kg)	6.4 / 0.5

ver. 150309

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

ALCOMA

ALCOMA, the Czech company founded in 1993, is a leading designer and producer of point-to-point microwave and millimeter wave radio relay links. All production is manufactured in its own factories in Prague and Kolin.

alcoma@alcoma.cz | www.alcoma.com