

# The Easiest The Fastest The Most Complex

**4-24 GHz** | **900 Mbps**  
966 for MTU 64 B



## Features

- ▲ Frequency bands 4-24 GHz
- ▲ License exempt 5, 17 and 24 GHz \*)
- ▲ Transmission capacity up to 900 Mbps, 1.8 Gbps for 2+0 configuration
- ▲ Fast / Gigabit Ethernet
- Optical / Electric interface
- ▲ Jumbo packets up to 10,240 Bytes
- ▲ Modulation type QPSK to 1024 QAM
- ▲ Hitless adaptive coding & modulation
- ▲ Forward error correction (FEC)
- ▲ Automatic TX power control (ATPC)
- ▲ All-Outdoor design with antennas 0.35, 0.65, 0.9 and 1.2 m
- ▲ Full overvoltage protection of ODU unit

\*) SRD equipment

## Management

- ▲ Proprietary network management system ASD
- ▲ SNMP protocol
- ▲ WEB interface
- ▲ SQL database
- ▲ Command line interface
- ▲ Independent diagnostic channel
- ▲ Software configurable
- ▲ System configuration 1+0, 1+1 or 2+0

## Applications

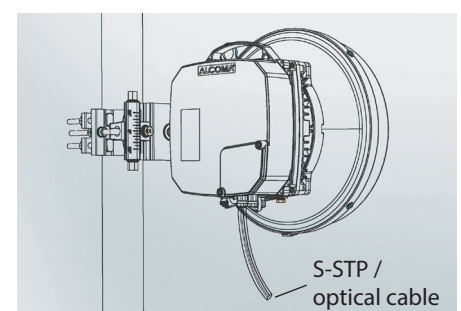
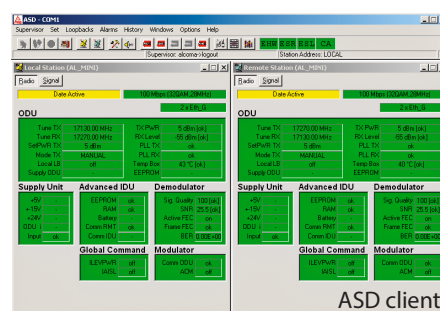
- ▲ Local / Metropolitan / Wide area networks
- ▲ IPTV distribution
- ▲ Last miles

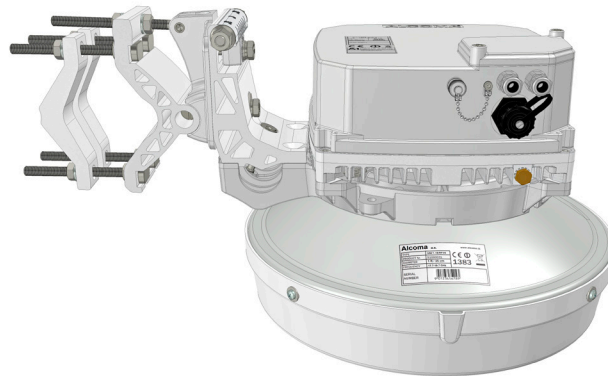
## Ethernet

- ▲ 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

- ▲ Full overvoltage protection
- ▲ Two DC inputs for two independent power sources (backup)
- ▲ 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





## New UNI® Antenna

General	4/5 GHz	6 GHz	7 GHz	8 GHz	10 GHz	11 GHz	13 GHz	17 GHz	24 GHz
								License Free	
Operating Frequency Range (GHz)	3.4–6.2	5.85–7.125	7.11–7.9	7.725–8.5	10.0–10.68	10.7–11.7	12.75–13.25	17.1–17.3	24.0–24.25*)
TX / RX Spacing (MHz)	100–320	150–340	154–245	119–311	91/168/350	490/500/530	266	–	–
Channel Spacing (MHz)								3.5–80	3.5–112
Capacity (Mbps)								5–660	5–900
Capacity for MTU 64 B (Mbps)								5–764	5–966
Modulation	QPSK/8/16/32/64/128/256/512/1024 QAM								
Frequency Stability	< 10 ppm								
Forward Error Correction	Trellis Coded Modulation with Concatenated Reed-Solomon error correction								
System Configurations	1+0, 1+1 or 2+0								
Radio									
TX Power max. (dBm)	23/18	23	23	23	9	24	24	SRD 20 EIRP (12 dBm max.)	
Automatic Transmit Power Control	ATPC								
Adaptive coding & modulation	ACM / Hitless ACM								
Interfaces									
2× 100Base-TX / 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 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)	–	–	–	–	28.5	28.5	30.1	32.5	35.5
0.65 m Mid Band Gain (dBi)	28	30	30	32	33.9	33.9	35.5	37.9	40.8
0.9 m Mid Band Gain (dBi)	32	33.1	34.4	35	37	38	39	41	43
1.2 m Mid Band Gain (dBi)	34	36	36	38	40	41	42	44	45
Class	RPE Class 2 or Class 3								
Polarization	vertical or horizontal							dual polarized	
Power supply									
=48 V (V)	+36 to +72								
Power consumption (W)	up to 35							up to 25	
ODU-Terminal Box	S-STP Cat.7 cable up to 100 m length								
Operating Temperature									
ODU (°C)	–33 to +55								
Protected Terminal Box (°C)	–5 to +55								
ODU Dimensions and Weight									
Width × Height × Depth (cm)	25.5 × 30.1 × 13.3								
Weight (kg)	5.1								

\*) SRD equipment | ver. 141003

For more technical information please see [www.alcoma.com](http://www.alcoma.com).



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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