

2.6 Gbps

ZENITH C Ultra-high capacity solution

Main features

- \rightarrow Frequency bands 71–76 and 81–86 GHz
- \rightarrow Output power up to 20 dBm
- ightarrow Modulation scheme QPSK to 256 QAM
- → Transmission capacity up to 2.6 Gbps full duplex (up to 5 Gbps full duplex for 2+0)
- \rightarrow 2.5 Gigabit Ethernet interface, 2× SFP slot
- ightarrow Gigabit Ethernet interface, 2× electric
- \rightarrow SyncE and IEEE 1588v2
- \rightarrow Low latency
- ightarrow Hitless adaptive coding and modulation (ACM)
- \rightarrow Automatic transmit power control (ATPC)
- \rightarrow System configuration 1+0, 1+1 or 2+0
- \rightarrow Full overvoltage protection
- ightarrow All Outdoor design

Typical applications

→ Mobile RAN networks: 4G/LTE/WiMAX macro-cell backhaul for access and aggregation CPRI front haul 2.5 Gbps

- **Ethernet features**
- ightarrow MTU up to 9600 Bytes
- ightarrow MEF 2.0

- Calline

- \rightarrow VLAN management
- \rightarrow G.8032 support
- → RMON statistic
- ightarrow Packet Fragmentation to minimize jitter
- \rightarrow Carrier Ethernet protocol stack

Management system

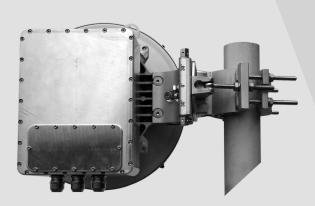
- \rightarrow Proprietary GUI management system
- \rightarrow In-band management
- \rightarrow SNMP protocol
- → Internet service providers: Backbones
- → Fixed line access networks: Last Mile fiber extension



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General				
Operating frequency range (GHz)	71-76/81-86			
TX/RX spacing (MHz)	10000			
Channel spacing (MHz)	250/500			
Modulation	QPSK/16/32/64/128/256 QAM			
Capacity full duplex (Mbps)	250 MHz/QPSK	250 MHz/256 QAM	500 MHz/QPSK	500 MHz/256 QAM
	325	1300	633	2600
Frequency stability	< 10 ppm			
Forward error correction	Reed-Solomon FEC			
System configurations	1+0, 1+1 SD/FD or 2+0			
Radio				
RX sensitivity BER = 10 ⁻⁶ (dBm)	250 MHz/QPSK	250 MHz/256 QAM	500 MHz/QPSK	500 MHz/256 QAM
	-71	-51	-68.5	-49
TX power max. (dBm)	20	12	20	12
ATPC	Yes			
ACM	Hitless ACM			
Interfaces				
		2× 1000Base-T, 2× SI	FP slot 2500Base-X	
Management				
	In-band GUI, SNMPv1, SNMPv2, SNMPv3			
Ethernet				
	MEF 2.0, VLAN, QinQ, G.8032, MTU 9600 B			
Antennas				
0.35 m mid band gain (dBi)	45.5			
0.65 m mid band gain (dBi)	51			
Class	RPE Class 2 or Class 3			
Polarization	V/H			
Power supply and cabling				
Range (V)	48 DC			
Power consumption (W)	36			
ODU connection	S-STP/S-FTP Cat. 7 cable up to 100 m length/optical fiber			
Operating temperature				
ODU (°C)	-35 up to +55			
Protected terminal box (°C)	-25 up to +55			
ODU / Terminal box dimensions and we	eight			
Width × Height × Depth (cm)	22 × 28 × 16.5 / 14.7 × 16.3 × 4.4			
Weight (kg)	5.9 / 0.5			

For more technical information please see www.al-wireless.com.



In order to achieve excellence providing services in point-to-point radio relay links integrated with other technologies, bring better support and more complex solutions to various countries, AL Wireless a.s. was started in 2015 by splitting off the foreign trade and customer support department from ALCOMA a.s., the worldwide known producer of microwave technology from the Czech Republic.

> AL Wireless a.s. Sokolská 1605/66, Nové Město 120 00 Praha 2 Czech Republic

phone: +420 228 226 500 e-mail: info@al-wireless.com web: www.al-wireless.com