



AL Wireless



ZENITH Q

PDH / Ethernet split solution

Main features

- Frequency bands 6 – 38 GHz
- Transmission capacity 900 Mbps for 1+0
- Channelwidth 3.5 - 112 MHz
- Modulation scheme QPSK - 2048 QAM
- Up to 63 E1, 3x Ethernet 1000 BaseT
- Optional STM-1 pass through
- Modulation type QPSK to 2048 QAM
- Adaptive coding and modulation (ACM)
- Automatic TX power control (ATPC)
- Cross polarization interference cancellation (XPIC)
- SyncE/1588
- Standard 1U 19" unit IDU

Ethernet features

- MTU up to 9728 Bytes
- IEEE 802.1D-2004
- IEEE 802.1Q-2003
- IEEE 802.3ad
- MEF 6, 9, 10.1, 11, 14
- ITU-T Rec. G.8032
- QoS Port-based, 802.1Q VLAN TAG,
- DiffServ, four-level priority queue

Management system

- Built-in web-based GUI, SNMPv1, SNMPv2, SNMPv3, Command line interface
- Independent NMS channel
- Software configurable
- System configurations 1+0, 1+1, 2+0, 2x2

Typical applications

- WIMAX/LTE/4G backhaul
- LAN/MAN/WAN
- IPTV and CCTV distribution
- B2B connections
- Interconnecting PBXs

ZENITH Q PDH / Ethernet split solution

General	4GHz	6GHz	7GHz	8GHz	11GH	13GH	15GH	18GH	23GH	26GH	32GH	38GH
					z	z	z	z	z	z	z	z
Operating frequency range (GHz)	3.4	5.85	7.11	7.725	10.7	12.75	14.4	17.7	21.2	24.25	31.8	37.0
	4.2	7.125	7.9	8.5	11.7	13.25	15.35	19.7	23.6	26.5	33.4	40.0
Tx/Rx spacing (MHz)	100	150	154	119	490	266	315	1008	1008	800	812	700
	320	340	300	360	530		728	1560	1232	1008		1260
Channel spacing (MHz)	3.5 – 112											
Capacity	Up to 1000 Mbps for 1+0											
Modulation	QPSK – 2048 QAM											
Frequency stability	< 10 ppm											
Forward Error Correction	Reed-Solomon error correction											
System configurations	1+0, 1+1 SD/FD, 2+0, XPIC											
Radio												
Tx power max. (dBm)	30	30	30	30	28	26	26	26	25	25	23	23
ATPC	Yes											
XPIC	Yes											
ACM	Hitless											
Interfaces												
	Up to 63 E1/T1											
	3x Ethernet 1000 Base T, packet length up to 9728 bytes											
	Optional STM-1 pass through											
Antennas												
0.35m mid gain (dBi)	-	-	-	-	29	30	31	33	35	36	38.5	40
0.65m mid gain (dBi)	-	29.5	30.5	31.5	34.5	35.5	36.5	38.5	40.5	42	44	45
0.9m mid gain (dBi)	-	33	34	35	38	39	40	42	43.5	44.5	-	-
1.2m mid gain (dBi)	-	35	36	37	40	41	42	44	45.5	47	-	-
Polarization	V / H											
Class	RPE Class 2 or 3											
Large diameter antennas	Other producers, possible waveguide connection											
Power supply and cabling												
Range (V)	-39 - -60 DC											
Power consumption (W)	1+0 up to 90, 1+1 and 2+0 up to 150											
IDU-ODU connection	Coaxial cable 50 Ω, RG213 up to 140 m, RT50/20 up to 240 m, N connector											
Operating temperature												
ODU (°C)	-35 up to +55											
IDU (°C)	-5 up to +50											
ODU / IDU Dimensions												
Width × Height × Depth (cm)	25.5 × 30.1 × 13.3 / 48.2 × 23.9 × 4.4											
Weight (kg)	From 4.6 to 6.7 / from 2.7 to 3.4											



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