

Horizon Compact



Frequencies

11 GHz	FCC/IC/ETSI/ITU
13 GHz	ETSI/AUS/NZ/ITU
15 GHz	IC/ETSI/AUS/NZ/MX/ITU
18 GHz	FCC/IC /ETSI/AUS/NZ/ITU
23 GHz	FCC/IC/ETSI/AUS/NZ/ITU/MX
24 GHz UL	FCC/IC/ETSI
24 GHz DEMS	FCC/IC
26 GHz	ETSI
28 GHz	FCC/ETSI
38 GHz	FCC/ETSI/AUS/NZ/MX

Mechanical

Radio/Modem (without antenna)	12 cm x 23.6 cm x 23.6 cm; 5.2 kg 4.75 in x 9.3 in x 9.3in; 11.5 lbs
Antenna Wind Loading	112 kph (70 mph) Operational 200 kph (125 mph) Survival
Antenna Mount Adjustment	+/- 45° Az; +/- 22° El

Payloads

Interface	1000/100/10 BaseT
Latency 100 BT	< 400µs, Typical < 200µs FastE
Latency GigE	< 200µs, Typical 120µs GigE
Packet Size	64 to 1600 Bytes, up 9600 (GigE Mode)
Flow Control	Yes (GigE mode only)
802.1p	Yes – 8 levels served by 4 queues
802.1q	Yes
Modulation Shifting	Current to Lowest – 100 ms

Power

Input	-36 VDC to -60 VDC
Optional Adapter	110/240 VAC
Consumption	30 Watts (per link end) 40 Watts High Power (per link end)

Connections

Power	-48V, POE
Payload (+ Inband NMS)	RJ45 or optical LC
NMS (when out-of-band)	RJ45

Network Management (NMS)

Alarm Management	SNMP Traps, Enterprise MIB
NMS Compatibility	Any SNMP based network manager SNMP v1, v2 and v3
Security	3 Level Authentication
EMS	Web Based Management System, SSL HTTP,SSH, Radius

Environmental

Operating Temperature	Standard Power (18-28 GHz) -40°C to + 50°C (-40°F to +122° F)
Humidity	100 % Condensing
Altitude	4500 m (14,760 ft)
Water Tightness:	Nema4X, IP56 (directed hose test)
Operational Shock:	ETSI 300-019-1-4; 5g 11ms
Operational Vibration:	ETSI 300-019-1-4 Class 4m5, NEBS GR-63
Earthquake:	NEBS GR-63

Modulation	50 MHz			40 MHz			30 MHz		
	Throughput	TX Power	RX Sensitivity	Throughput	TX Power	RX Sensitivity	Throughput	TX Power	RX Sensitivity
QPSK	67	17/27	-81	58	17/27	-81			
16 QAM	110	14.5/24.5	-78	110	15/25	-75			
32 QAM	171	14/24	-73	143	13/23	-74	107	13/23	-75
64 QAM	215	12.5/22.5	-69	181	10.5/20.5	-70	128	12.5/22.5	-72
128 QAM	271	11/21	-66	212	10/20	-67	165	11/21	-68
256 QAM	322	11.5/21.5	-60						
256 QAM	371	9.5/19.5	-60	277	9.5/19.5	-61	212	9.5/19.5	-62
Modulation	56/55 MHz			28 MHz			14 MHz		
	Throughput	TX Power	RX Sensitivity	Throughput	TX Power	RX Sensitivity	Throughput	TX Power	RX Sensitivity
QPSK				37	17/27	-83			
QPSK	65	17/27	-80	48	13.5/23.5	-82	23	13.5/23.5	-85
16 QAM	111	14.5/24.5	-77	71	13/23	-79	36	13/23	-82
32 QAM	216	11/21	-72	100	11/21	-75	47	13/23	-78
128 QAM	290	10.5/20.5	-66	144	10.5/20.5	-69	70	10.5/20.5	-72
256 QAM	385	9.5/19.5	-60	190	9.5/19.5	-63	95	9.5/19.5	-66

SP/HP shown for Tx Power
Throughput based on random packet size
Not all modes may be available in all channel sizes
Preliminary data – may be subject to change



DragonWave

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