

HORIZON COMPACT

High Capacity Wireless Ethernet System



Frequencies

| | |
|-------------|---------------------------|
| 6 GHz | FCC/IC/ETSI/ITU |
| 7 GHz | ETSI/ITU/MX |
| 8 GHz | ETSI/ITU |
| 11 GHz | FCC/IC/ETSI/ITU |
| 13 GHz | ETSI/AUS/NZ/ITU |
| 15 GHz | IC/ETSI/AUS/NZ/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 | Yes |

Power

| | |
|------------------|---------------------------------------------------------------|
| Input | -36 VDC to -60 VDC |
| Optional Adapter | 110/240 VAC |
| Consumption | 25 Watts (per link end) 46 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 c and v3 |
| Security | 3 Level Authentication |
| EMS | Web Based Management System, SSL HTTP,SSH, Radius, Telnet |

Environmental

| | |
|------------------------|----------------------------------------------------------------|
| Operating Temperature | -40°C to + 50°C [-40°F to +122° F] STD Pwr With heat shield |
| 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 |

Note: add 3 dB to HP TX power shown in table for 6-8 GHz products

| 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 | 57 | 17/27 | -81 | | | |
| 16 QAM | 110 | 14.5/24.5 | -77 | 111 | 15/25 | -76 | | | |
| 32 QAM | 171 | 14/24 | -72 | 142 | 13/23 | -73 | 107 | 13/23 | -75 |
| 64 QAM | 215 | 12.5/22.5 | -68 | 181 | 10.5/20.5 | -69 | | | -72 |
| 128 QAM | 271 | 11/21 | -62 | 212 | 10/20 | -67 | 165 | 10/20 | -68 |
| 256 QAM | 322 | 11.5/21.5 | -59 | | | | | | |
| 256 QAM | 371 | 9.5/ | -59 | 277 | 9.5/19.5 | -60 | 212 | 9.5/19.5 | -62 |
| 256 QAM | 364 | /19.5 | -59 | | | | | | |

| Modulation | 20 MHz | | | 10 MHz | | | 56/55 MHz | | |
|------------|------------|----------|----------------|------------|----------|----------------|------------|-----------|----------------|
| | Throughput | Tx Power | RX Sensitivity | Throughput | Tx Power | RX Sensitivity | Throughput | Tx Power | RX Sensitivity |
| QPSK | | | | 14 | 27 | -87 | | | |
| 16 QAM | 28 | 27 | -84 | 22 | 24.5 | -84 | 65 | 17/27 | -80 |
| 32 QAM | 54 | 23 | -80 | | | | 111 | 14.5/24.5 | -76 |
| 64 QAM | 71 | 23 | -77 | 48 | 21.5 | -74 | 216 | 11/21 | -70 |
| 128 QAM | 108 | 20.5 | -70 | | | | 290 | 10.5/20.5 | -62 |
| 256 QAM | 142 | 19.5 | -64 | 65 | 21 | -68 | 385 | 9.5/19.5 | -59 |

| Modulation | 28 MHz | | | 14 MHz | | | 7 MHz | | |
|------------|------------|-----------|----------------|------------|-----------|----------------|------------|-----------|----------------|
| | Throughput | Tx Power | RX Sensitivity | Throughput | Tx Power | RX Sensitivity | Throughput | Tx Power | RX Sensitivity |
| QPSK | 37 | 17/27 | -85 | | | | | | |
| QPSK | 48 | 13.5/23.5 | -84 | 23 | 13.5/23.5 | -87 | 11 | 17/27 | -88 |
| 16 QAM | 71 | 13/23 | -80 | 36 | 13/23 | -84 | 18 | 11.5/21.5 | -86 |
| 32 QAM | 100 | 11/21 | -75 | 47 | 13/23 | -80 | | | |
| 64 QAM | | | | | | | 33 | 10.5/20.5 | -78 |
| 128 QAM | 144 | 10.5/20.5 | -68 | 70 | 10.5/20.5 | -72 | 39 | 10/20 | -74 |
| 256 QAM | 190 | 9.5/19.5 | -64 | 95 | 9.5/19.5 | -68 | | | |

Note: add 3 dB to HP TX power shown in table for 6-8 GHz products
 SP/HP shown for Tx Power
 Throughput based on random packet size
 Throughput approximately 20% higher @ minimum packet size
 Not all modes may be available in all channel sizes
 Preliminary data - may be subject to change

Connect with us today!

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