



HORIZON COMPACT+

ALL-OUTDOOR HIGH CAPACITY PACKET MICROWAVE

SERVICE PROVIDERS CAN NOW DO MORE OUTDOORS WITH THE ZERO FOOTPRINT HORIZON COMPACT+ FROM DRAGONWAVE.

This high capacity packet microwave system delivers big performance in a small package. Because the radio and modem are integrated into a single highly compact outdoor unit, Horizon Compact+ is a zero footprint solution – eliminating rack congestion and minimizing collocation space. Equipped with DragonWave’s Bandwidth Accelerator technology, the Horizon Compact+ achieves the highest degree of spectral efficiency, delivering more capacity per channel than any other all-outdoor microwave system.

With unmatched radio performance, simple installation and operation, as well as sophisticated remote management capability, the Horizon Compact+ delivers significant lifecycle cost savings for service providers and enterprises alike.

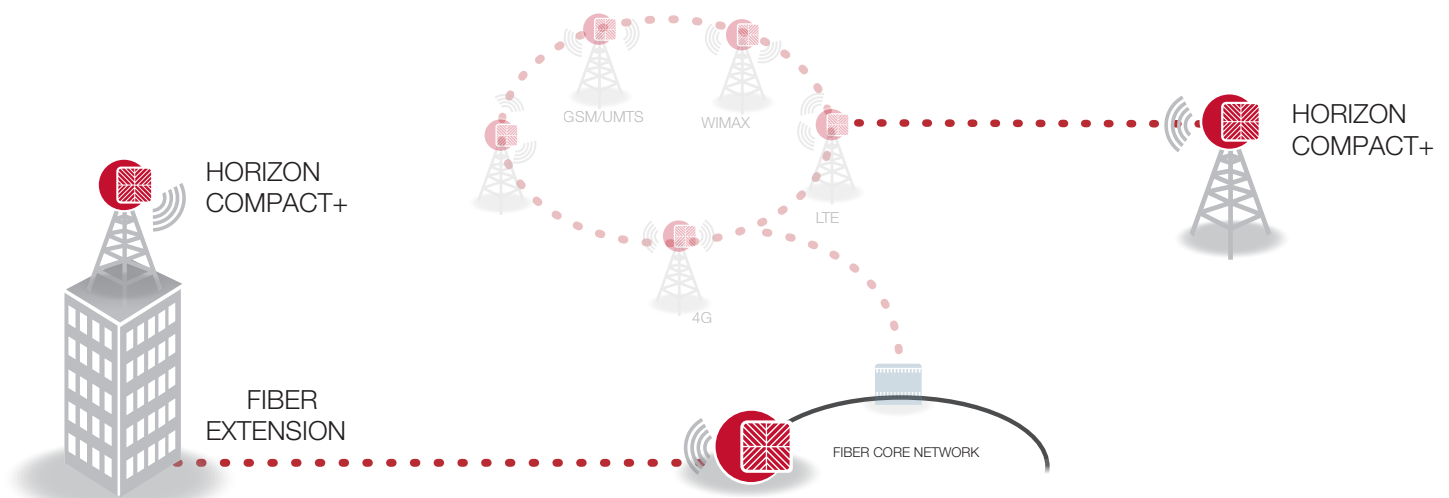
This innovative, carrier-grade packet microwave solution operates in licensed or unlicensed spectrum from 6 to 60 GHz.

SOLUTION HIGHLIGHTS

- Zero footprint, fully integrated all-outdoor unit
- 1 to 2 Gbps capacity with DragonWave’s Bandwidth Accelerator
- Up to 2048QAM modulation support
- Service aware Hitless Automatic Adaptive Modulation (HAAM)
- SyncE support and optimized transport of 1588v2
- Pay-as-you-grow with automatic remote scalability
- Advanced security with integrated 256-bit AES encryption
- Comprehensive Ethernet OAM support (802.3ah, 802.1ag, Y.1731)
- Advanced QoS support with 8 levels of prioritization
- Comprehensive management and provisioning with DragonVision NMS
- Lowest total cost of ownership solution

KEY APPLICATIONS

- Mobile Backhaul
- Leased Line Replacement
- Last Mile Fiber Extension
- Private and Enterprise Networks



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/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 |
| 32 GHz | ETSI |
| 38 GHz | FCC/ETSI/AUS/NZ/MX |
| 60 GHz | UNLICENSED |

FEATURES

| | |
|------------------------|---|
| Capacity w/Accelerator | Variable from 10 to 1000 Mbps full duplex CIR 2x capacity up to 2 Gbps with Dual Pole Radio Mount (DPRM) |
| Base Capacity | Variable from 10 to 500 Mbps full duplex CIR 2x capacity up to 1000 Mbps with DPRM |
| Interface | Software selectable: 2xGE or 4 x10/100bT or 1xGE + 2x10/100bT |
| Latency GigE | 120µs @ 256QAM, 50 MHz |
| Packet Size | 64 to 9600 Bytes |
| Flow Control | Yes |
| Prioritization | 8 levels served by 8 hardware queues, based on 802.1p/q, MPLS, DSCP ToS Bits |
| Modulations | QPSK to 2048QAM |
| Modulation Shifting | Yes, Hitless |
| Loopback | Yes, Radio loopback |
| Synchronization | Synchronous Ethernet ready |
| Encryption | Integrated 256-bit AES encryption |

POWER

| | | |
|--|--|-----|
| Input | -40.5 VDC to -56 VDC or +40.5 VDC to +56 VDC | |
| Optional Adapter | 110/240 VAC | |
| Consumption* | 6 GHz | 55W |
| | 7/8 GHz | 80W |
| | 13/15 GHz | 47W |
| | 18 GHz | 49W |
| | 23 GHz | 48W |
| 38 GHz | 43W | |
| *Measured at the radio with 30M of CAT5E cable and 48V input to PoE. | | |

MECHANICAL

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|-------------------------------|--|
| Radio/Modem (without antenna) | 10.2 cm x 24.3 cm x 22.1 cm; 3.4 kg 4" x 9.6" x 8.7"; 7.5 lbs |
| Power Adapter | 15 cm x 7 cm x 3.5 cm 5.91" x 2.76" x 1.38" |
| Antenna Wind Loading | 112 kph (70 mph) operational, 200 kph (125 mph) survival |
| Antenna Mount Adjustment | +/- 45° Azimuth; +/- 22° Elevation |

CONNECTIONS

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|------------------------|-------------------------|
| Power | -48V, Power on Ethernet |
| 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, v2c and v3 |
| Security | 3 Level Authentication |
| EMS | Web Based Management, SSL HTTP, SSH, Radius, Telnet |

ENVIRONMENTAL

| | |
|-----------------------|--|
| Operating Temperature | -40°C to + 60°C (-40°F to +140° F) |
| Humidity | 100 % Condensing |
| Altitude | 4500 m (14,760 ft) |
| Water Tightness | Nema4X, IP66 (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 |