



NO BARRIERS, NO BORDERS

DRAGONWAVE HORIZON

NEXT GENERATION, WIRELESS
HIGH-CAPACITY NATIVE ETHERNET

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LOOK TO HORIZON

New high capacity IP applications are quickly exceeding the capacity of existing networks. How can you meet the demand for more bandwidth without the hassle, time constraints and expense of building or expanding a fiber backbone?



Today's networks need to be fast, flexible, OPEX efficient and IP optimized. Look to Horizon to meet the ever growing demand for more services and greater capacity.

**HORIZON
IS DRAGONWAVE'S
NEXT GENERATION
WIRELESS NATIVE
ETHERNET**

- Highest carrier-grade capacity at the lowest cost per bit
- Flexibility to scale without the need for re-engineering or site visits
- Pseudowire capability that enables integration of Ethernet and TDM traffic across single packet-based network
- An elegant upgrade path for existing DragonWave AirPair installations

PRODUCT PORTFOLIO

Connect fixed and mobile services to your network fast with DragonWave's innovative and leading solutions for wireless Ethernet. Build your own network, extend your reach, add capacity and introduce new services. Do it easily and cost effectively, all the while optimizing your existing investment in legacy infrastructure.



Horizon Compact – Zero Footprint

Get the performance you require to upgrade your network to new technologies such as WiMax, LTE or 3G, without the hefty price tag. Horizon Compact is a next generation, high capacity, native Ethernet microwave system offering improved economics and simplified operations. With the radio and modem integrated into one single compact out-door-unit, Horizon Compact features zero-footprint capability. Horizon Compact's increased capacity (800 Mbps); simplified installation and operation; and improved troubleshooting mean lower lifecycle costs. This highly integrated, carrier grade solution for Ethernet backhaul uses licensed or unlicensed spectrum from 6 to 38 GHz.



Horizon Duo – Wireless Without Limits

Horizon Duo takes wireless to new heights, delivering industry-leading capacity of an astounding 1.6 Gbps per link that rivals the capacity of fiber-based solutions. The ability to share the modem technology of Horizon Compact, paired with the Horizon Duo's dual modem capabilities, enables the doubling of capacity per system. It's wireless without limits. This increased capacity, using the same amount of hardware, results in significantly lower costs per bit as compared to other solutions. Horizon Duo can be operated in either single or dual channel modes and includes the Flex bandwidth feature found in all DragonWave solutions. This innovative platform leads the industry in flexibility, capacity and cost efficiency.



Pseudowire – Service Delivery Unit + APX

DragonWave's Service Delivery Unit (SDU) provides a convenient, compact termination point for mixed TDM and Ethernet service. It combines Ethernet, 6 switched GbE ports (2 optical/electrical and 4 electrical) as well as Pseudowire functionality into a single box while consuming only one-third of a rack unit. There are three SDU options available: 16 port T1/E1 version; a 2 port DS3 version, and an OC3/STM1 version. Up to three SDUs can be mounted into a single Rack Unit (1RU) high slot and cascaded to provide as many ports as required. DragonWave's SDU offers a solution to provide high capacity TDM transport and high capacity carrier Ethernet traffic over a single converged packet based network. DragonWave's APX-104E/108E products delivers a standards compliant 4/8 x T1/E1 port extension capability that seamlessly transports TDM traffic over Ethernet enabling customers to easily migrate to native IP networks.

THE HORIZON ADVANTAGE

Unparalleled Capacity

- Delivers up to 1.6 Gbps full duplex over licensed or unlicensed spectrum
- Offers maximum capacity at lowest cost per bit

Upgradeability

- Increase your capacity with the existing hardware
- Provides a simple and flexible upgrade path for AirPair users

Zero Footprint

- Available in full indoor/outdoor options
- Horizon Compact offers single outdoor unit

Converged TDM

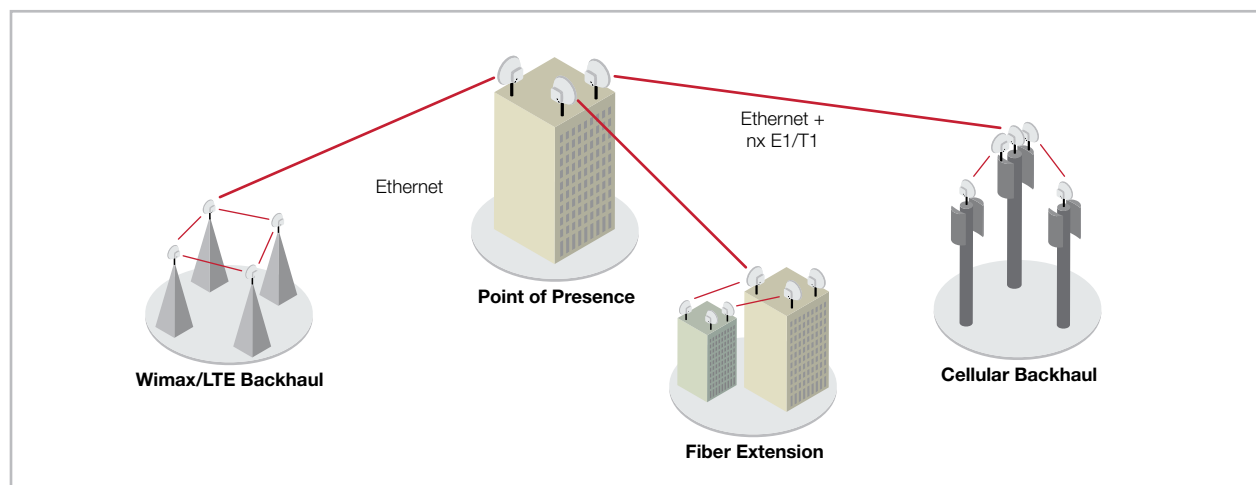
- Pseudowire allows for true network convergence – no need to manage TDM connections at each intermediate network point
- Provides for simplified operations and management

Extended Reach

- Provides up to 98 dB system gain in its standard power configuration or up to 111dB in a high power configuration
- Enables link lengths beyond 50 km/30 mi
- Automatic Adaptive Modulation (AAM) allows links to be engineered to maximum availability and capacity

Network Protection

- Supports mesh and ring configurations with 50 ms switching enabling carrier class availability and services
- Offers 0:1 or 1+1 fully redundant configuration
- Provides for radio redundancy with upmast switch on single modem



Are you an AirPair user?

Upgrade to Horizon. Elegant, easy, effective

Horizon provides an elegant and easy path for AirPair customers to upgrade their networks. DragonWave's Horizon Duo product reuses existing AirPair ODU radio, antenna and cabling. Simply upgrade the IDU to achieve at least 4x network capacity. The upgrade can be done easily and cost-effectively without the need to perform a tower climb.

SOLUTIONS

Next Generation Service Providers – Plug access technologies into your network fast with DragonWave Horizon wireless backhaul. With scalability up to 1.6 Gbps, Horizon offers the greatest capacity at the lowest cost per bit. Next-Generation Service Providers get the capacity they need, when they need it.

Network Evolution – Enable your network to carry emerging IP services. DragonWave enables you to evolve to an IP-optimized network, while still carrying legacy TDM services, through a converged IP backbone.

Private and Enterprise Networks – Build a carrier-grade private network. Achieve payback within a year. DragonWave Horizon's software scalable GigE wireless mesh connectivity means there are no capacity constraints and because it is licensed, there's no interference.

Wireline Operators – Bring your high value, out of territory, customers directly onto your network with targeted wireless build-outs. DragonWave's Horizon solution provides the right mix of traffic and the right capacity – all under software control – to optimize the connection for every customer.

APPLICATIONS

WiMAX/LTE - DragonWave offers a high-capacity, carrier-grade, integrated solution for Ethernet backhaul using interference-free, licensed spectrum. DragonWave Horizon products enable rapid network expansion with remote scalability from 10 Mbps to 1.6 Gbps. Horizon Compact's simple integration and zero footprint eliminates any impact on the WiMAX/LTE basestation footprint. Management integration into the basestation EMS provides a single point of control for operations personnel.

3G Cellular Backhaul/IP Evolution - Meet the growing demand for increased capacity and data transport resulting from 3G cellular deployments. Horizon provides the most cost-effective, lowest capacity TDM services for basestations available today. DragonWave's products offers software controlled upgradeability to high-capacity native Ethernet and TDM services with ultra-low latency to enable 3G evolution with minimum network churn.

Leased Line Replacement – For many businesses, their only option for last mile access is the ILEC, provided on an aging copper infrastructure with long MTTR. Horizon can replace leased services and eliminate recurring and expensive telecom costs. At the same time businesses can improve availability and enable future growth and service options with a scalable, IP-ready network.

Last Mile Fiber Extension – Core metro markets have the greatest demand for broadband services. DragonWave's Horizon delivers a superior, complementary networking solution to rapidly extend high-speed IP services from locations already attached to the service provider's network. DragonWave's portfolio of products are ideal for network hardening, disaster recovery and applications that require legacy TDM services and carrier-grade, high-capacity native Ethernet systems.



Connect with us today!

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