

Video Transcript

Harmony Enhanced^{MC} Product Demo



DragonWave

www.dragonwaveinc.com

Harmony Enhanced Multi-Carrier is DragonWave's 3rd generation radio supporting multiple channels and the first to support this in a single outdoor unit. Harmony Enhanced^{MC} is an integral part of the Harmony Enhanced family, delivering two times the capacity in a single ODU – thus allowing operators to Double Up. Harmony Enhanced^{MC} is well suited for high capacity mobile backhaul, Enterprise connectivity, and Long Haul transport.

Harmony Enhanced^{MC}'s fully enclosed radio simplifies the installation of cables and connectors. It further includes an integrated OMT to facilitate the mounting of the radio directly to the antenna without the use of external couplers and enabling Dual channel or XPIC configurations with a single unit.

Harmony Enhanced^{MC}'s transmit power delivers an industry first radio capable of delivering up to 35dBm into the antenna. This results in anywhere from 6 to 10dB better system gain than existing competitive systems today. The increased gain helps operators extend reach by about 30%, reduce their antenna sizes, increase their capacity, or increase their link uptime.

Harmony Enhanced^{MC} delivers superior capacity through the support for dual channel operation and 112 MHz (Megahertz) channels along with leading edge RF spectral efficiency through 2048QAM support today and the future support of 4096QAM, with a software upgrade only. This is combined with innovative compression techniques to deliver Gigabit capacities over narrow channel bandwidths. This combination of features enables capacities that can exceed 6 Gbps (Gigabits per second) in wide channels and greater than 1.25Gbps (Gigabits per second) in a single 28MHz (Megahertz) channel using the Software upgrade to MIMO. In addition, the increased spectral efficiency reduces licensing costs and can improve total cost of ownership by over 40%.

The presence of a 10GbE (Gigabit Ethernet) port directly on the radio helps reduce the number of cables required to deliver multi-Gigabit capacities. Harmony Enhanced^{MC}'s integrated non-blocking switch supports a full suite of Ethernet features and provides an evolution to MPLS and SDN to support next generation networking without any hardware changes or additions. The use of a switch is completely optional as the Harmony Enhanced^{MC} is a standalone radio.

Harmony Enhanced^{MC}'s full suite support of packet based synchronization gives the operator the ability to maximize their LTE and LTE Advanced services which require very tight coordination between basestations.

This highlighted combination of industry leading features and capabilities sets Harmony Enhanced^{MC} at the top of its class of high capacity, long reach, and all outdoor radios. With leading edge capacity, operators can deploy today with room to scale their network in the future.

For any additional information on Harmony Enhanced^{MC}, please refer to the product manual and quick reference guide which can be found on the Customer Support portal of the DragonWave website.