Parallel Wireless CWS-210 Data Sheet

Overview

CWS-210 is a ruggedized in-vehicle eNodeB/Wi-Fi Access point with integrated flexible backhaul. It provides control, security, and traffic prioritization along with the unique capability to extend or create coverage anywhere, including in-building, rural, etc. to enable performance critical Public Safety, Military, and local government multimedia and data communications via Bring Your Own Coverage (BYOC) capability. BYOC capability addresses coverage shortfalls from geographical or building limitations to network outages and emergency circumstances. The CWS eNodeB can extend nearby macro coverage into areas with no coverage like underground parking garages, basements, etc., and also enable Ad Hoc network when network infrastructure do not exist or is compromised. With flexible mounting options, the hardware can be easily installed in any emergency or public transit vehicle.

Figure 1. **CWS-210: Fleet-grade/Public Safety Grade Cost-effective Hardware**

The nodes are self-configured and self-managed via HetNet Gateway from Parallel Wireless and can be deployed and maintained without any specialized staff.

Features and Capabilities

- 4G/LTE radio bands or specialised, Wi-Fi Access
- Integrated flexible backhaul: LOS and nLOS; Fiber/Ethernet/LTE, multi-radio wireless mesh
- 3GPP compliant
- Auto configuration capability allows the network to be operational in minutes
- SON-based interference mitigation and dynamic RF power adjustments

CWS-210 Specifications at a Glance

Architecture	High-capacity platform for instant resilient coverage anywhere
Flexibility	• Auto-config • Self-healing
Air Interface	3GPP Release 9 compliant and software upgradeable to any future releases
Software Features	• QoS based mesh routing • SON resource control
Timing Support	Built-in GPS
Antenna type	Connectors for long haul link support with high gain/narrow beam antenna & omni/sectored antenna
Frequency Bands	All major LTE frequency bands supported
Resilience	Full hardware and software redundancy through HetNet Gateway
Temperature	Vehicle enclosure (-30 °C to +50 °C)

CWS hardware family is designed to comply with the region's appropriate regulatory and compliance standards.

For more information on CWS-210 hardware, please e-mail order@parallelwireless.com.