

CWS-3050 Outdoor ALL-G Base Station

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Multi-Technology (2G, 3G, 4G) multi-carrier base station with integrated flexible backhaul

Key Features

- Self-configuring, self-optimizing, and self-managing via HNG
- Multiple backhaul options for increased flexibility
- Software defined Any-G carrier combinations

Key Benefits

- Cost-effective, resilient coverage outdoors
- Lower overall TCO
- Simple and flexible deployment



The Converged Wireless System (CWS) CWS-3050 is a software-defined, multi-technology, multi-carrier node that can operate both as a standalone, All-in-One base station, as well as a Remote-Radio-Head (RRH) connected to Parallel Wireless's Virtualized Radio Unit solution (VRU).

CWS supports any combination of 2G/GSM, 3G/UMTS, and 4G/LTE in the same unit, simplifying deployments while driving down overall deployment costs, while offering operators a cost-effective voice and data solution.

The CWS is specifically designed for:

- Improving outdoor coverage in coverage not-spots and add capacity in high density urban environments
- Providing cost-optimized coverage in rural areas
- Unparalleled RAN entry costs, allowing the network to easily evolve across radio technologies via a simple configuration

CWS-3050 is auto-configured and managed by the Parallel Wireless HetNet Gateway (HNG), without the need for specialized staff on site. The HNG makes the CWS nodes self-configurable, self-optimizing via real-time SON on HNG, and also provides resilience and self-healing with dynamic re-routing and enables backhaul meshing between the nodes using licensed or unlicensed spectrum. SON on the HNG actively manages and monitors CWSs.

Key Features and Capabilities

- Fully 3GPP-compliant 2G (GSM), 3G (UMTS), and/or 4G (LTE) coverage
- Plug-n-Play
- Carrier-grade security
- Centralized SON-based via HNG



Category	Capability
Technology	<ul style="list-style-type: none"> Any dual-RAT combination of the following technologies: 2G/GSM 3G/UMTS 4G/LTE
Bands	<ul style="list-style-type: none"> 5, 8 Please consult with Parallel Wireless on other bands availability
Channel Bandwidth	<ul style="list-style-type: none"> LTE – 5/10/15/20MHz
Tx Power	<ul style="list-style-type: none"> 2 x 40W (2 x 46dBm)
Input Voltage	<ul style="list-style-type: none"> -37VDC to -57VDC
Operating Temperature	<ul style="list-style-type: none"> -40°C – 55°C / -40°F – 131°F
Antenna	<ul style="list-style-type: none"> Any external antenna
Cooling	<ul style="list-style-type: none"> Convection (fanless)
Power Consumption	<ul style="list-style-type: none"> 341W Max
Dimensions (HxWxD)	<ul style="list-style-type: none"> 373 x 220 x 200 mm / 14.7 x 8.7 x 7.9 in
Volume	<ul style="list-style-type: none"> 16L
Weight	<ul style="list-style-type: none"> 15Kg / 34lbs
Relative Humidity	<ul style="list-style-type: none"> < 95%, non-condensing
Protection level (IP)	<ul style="list-style-type: none"> IP66
Synchronization	<ul style="list-style-type: none"> GPS
Antenna Interfaces	<ul style="list-style-type: none"> 2 x 4.3-10
GPS Interface	<ul style="list-style-type: none"> N-type. Active with +5VDC power
Network Interfaces	<ul style="list-style-type: none"> 1 x SFP/SFP+ 1 x 10/100/1000Base-T RJ45
Mounting Options	<ul style="list-style-type: none"> Wall mount Pole mount Rooftop mount Cabinet-installed
Physical Security	<ul style="list-style-type: none"> Tamperproof screws

For more information, please reach out to orders@parallelwireless.com