

CWS-3050 OUTDOOR MULTI-G BASE STATION



CWS-3050 MULTI-G

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

KEY FEATURES

- Self-configuring, self-optimizing, and self-managing via Near-RT RIC
- Multiple backhaul options for increased flexibility
- Software defined 3G and 4G carrier combinations

KEY BENEFITS

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

OVERVIEW

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 Baseband Unit solution (vBBU).

CWS supports 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

CWS-3050 is auto-configured and managed by the Parallel Wireless Near-RT RIC, without the need for specialized staff on site. The Near-RT RIC makes the CWS nodes self-configurable, self-optimizing via real-time SON on Near-RT RIC, 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 Near-RT RIC actively manages and monitors CWSs.

KEY FEATURES AND CAPABILITIES

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



CATEGORY	CAPABILITY
Technology	<ul style="list-style-type: none"> • 3G/UMTS (in relevant bands) • 4G/LTE
Bands	<ul style="list-style-type: none"> • 3, 5, 8, 28
Channel Bandwidth	<ul style="list-style-type: none"> • LTE – 5/10/15/20MHz
Technology Combinations	<ul style="list-style-type: none"> • 3G + 3G • 3G + 4G • 3G + 4G
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"> • 335W Max
Dimensions (HxWxD)	<ul style="list-style-type: none"> • 373 x 220 x 160 mm / 14.7 x 8.7 x 6.3 in
Volume	<ul style="list-style-type: none"> • 12L
Weight	<ul style="list-style-type: none"> • 13Kg / 28.6lbs
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

