

P5G505

Indoor TDD Radio Unit

WILSON
CONNECTIVITY

P5G505: Powerful 5G Performance for Outdoor Networks



The P5G505 from Wilson Connectivity is engineered for demanding outdoor 5G deployments. This advanced O-RAN compliant Radio Unit offers:

- 4T4R MIMO with 5W per antenna port for extended coverage
- Rugged IP65-rated design for reliable outdoor operation
- Flexible TDD support for n48 and n78 bands
- Up to 100 MHz bandwidth for high-capacity services

Ideal for macro and small cell deployments, the P5G505 delivers the power and durability needed for next-generation outdoor networks.

Technology	
Standard	3GPP TS38.104, Option 7-2x Category A, O-RU CUSM-Plane
Duplex Mode	TDD
Frequency Band	n48 (3550MHz to 3700MHz) n78 (3300MHz to 3800MHz)
Channel Bandwidth	1CC up to 100MHz
Multiplexing	MIMO: 4T4R
Sub Carrier Spacing (SCS)	30 kHz

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Interfaces	
Interfaces	1 x 10G SFP+ (Fronthaul) 1 x 1GbE RJ45 (Debug) 1 x 1GbE RJ45 (Console)
Power	100-240V AC, 50-60Hz
Network Management	Web-based EMS Northbound NETCONF/YANG
LED Indicators	SFP+, GPS, Power, Status
GPS	SMA
Antenna	External, N-type

Link Budget	
Modulation	256 QAM (UL/DL)
Max. Transmit Power	5W (37 dBm) per RF antenna port

Compliance	
3GPP	TS38.114 Section 6, 7
EMC	EN 301489-1/-50, EN55032/55035, FCC Part 15 Class B
Safety	IEC/EN 60950-1, CB - IEC/EN 62368-1
RF	EN 30190B-1, EN 301908-24, EN 55385 (MPE) FCC Part 96 (CBRS), 5G NR JRL [CE RED pending]

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Physical	
Ingress Protection Rating	IP65
Operating Temperature	-40 to 131 °F (-40 °C to +55 °C), 5 to 95 % RH
Power Consumption	150W maximum
Weight	33.1 lb (15 kg)
Dimensions (H x W x D)	16.8 x 12.4 x 5.4 in (428 x 316 x 137mm)
Installation	Wall / Pole mount

Global Part Numbers	
P5G-APO505-n48	P5G505 Outdoor TDD Radio Unit – n48 5W 4x4 MIMO
P5G-APO505-n78	P5G505 Outdoor TDD Radio Unit – n78 5W 4x4 MIMO

*Specifications and ID are subject to change without notice.