

P5G500

Indoor TDD Radio Unit

WILSON
CONNECTIVITY

P5G500: Compact Power for Indoor 5G Deployment

The P5G500 from Wilson Connectivity brings robust 5G capabilities to indoor environments. This O-RAN compliant Radio Unit delivers:

- 4T4R MIMO with 250mW per antenna port for efficient coverage
- Versatile TDD support for n48 and n78 bands
- Compact IP50-rated design for flexible indoor installations
- Up to 100 MHz bandwidth with 2CC carrier aggregation

Perfect for enterprise, venue, and dense urban deployments, the G105 combines performance and adaptability in a sleek package.



Technology	
Standard	3GPP TS38.104, Option 7-2a Category A, O-RU CUSM-Plane
Duplex Mode	TDD
Frequency Band	n48 (3550MHz to 3700MHz) n78 (3300MHz to 3800MHz)
Channel Bandwidth	n48: 10, 20, 40 MHz n78: up to 100 MHz
Multiplexing	MIMO: 4T4R
Carrier Aggregation	2CC
Sub Carrier Spacing (SCS)	30 kHz

P5G500

Indoor TDD Radio Unit

WILSON
CONNECTIVITY

Interfaces	
Interfaces	1 x 10Gbps SFP+ (Fronthaul) 1 x 1GbE RJ45 (PoE++ only) 1 x USB (Console)
Power	Option 1 Adapter (included) Input: 100-240V, 50-60Hz 1.5A Max Output: 12VDC, 4.0A, 48.0W Option 2 POE++ (IEEE 802.3bt3)
Network Management	Web-based EMS Northbound NETCONF/YANG
LED Indicators	Power, S-Plane, Service
Antenna	External, SMA

Link Budget	
Modulation	256 QAM (UL/DL)
Max. Transmit Power	250 mW (24 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) [CE RED pending, FCC Part 96 (CBRS) pending]

P5G500

Indoor TDD Radio Unit

WILSON
CONNECTIVITY

Physical	
Ingress Protection Rating	IP50
Operating Temperature	23 to 122 °F (-5 to +50 °C), 5 to 95 % RH
Power Consumption	< 35 W
Weight	< 6 lb (< 2.5 kg)
Dimensions (H x W x D)	10.2 x 11.0 x 2.2 in (260 x 280 x 55 mm)
Installation	Ceiling / Wall / Pole mount

Global Part Numbers	
P5G-API500-n48	P5G500 Indoor low power TDD Radio Unit – n48 250mW 4x4 MIMO
P5G-API500-n78	P5G500 Indoor low power TDD Radio Unit – n78 250mW 4x4 MIMO

*Specifications and ID are subject to change without notice.