

LTE100 Indoor Access Point

WILSON

LTE100: Indoor Conductivity with LTE Range and Security

The Wilson Connectivity LTE100 provides streamlined 4G/LTE solutions for indoor business environments. This compact indoor access point delivers reliable, high-speed connectivity essential for modern office operations. Designed for easy integration with existing network infrastructure, the LTE100 allows businesses to leverage 4G/LTE capabilities with minimal disruption. It's ideally suited for enhancing mobile connectivity in corporate offices, supporting device-dense environments in co-working spaces, and enabling consistent wireless performance for business-critical applications.



In DC mode, each carrier is treated as an independent cell, supporting 96+96 users, with each cell supporting 5, 10, 15, or 20 MHz bandwidth. Using a LTE100 in DC mode simplifies and streamlines the deployment of split sectors. This product comes with a standard one-year warranty; an extended warranty is available.

Technology

Standard	LTE TDD RAN (3GPP Release 15 compliant)
TDD UL/DL Configuration	1, 2, 6 (with Special Subframe Configuration 7)
Frequency Band	B48 (3550MHz–3700MHz)
Channel Bandwidth	SC: 5/10/15/20MHz CA: 40MHz as maximum aggregated bandwidth
Multiplexing	MIMO: 2x2 (DL)
Security	Radio: SNOW3G/AES-128 Backhaul: IPsec (X.509 AES-128, AES-256, SHA-128, SHA-256)

*Planned for a future release





Antenna Pattern



H-Pattern



V-Pattern

Interfaces

Highlights

Standard LTE TDD Band 48

GUI-based local and remote Web management

Excellent Non-Line-of-Sight (NLOS) coverage

Peak rate: Up to DL 290Mbps and UL 70 Mbps with 2x20MHz bandwidth

2CC DL/UL CA improves the spectrum efficiency of fragmented spectrum resources

Suitable for private and public deployments; any IP-based backhaul can be used, including public transmission protected by Internet Protocol Security (IPsec)

96 RRC connected users per carrier (96+96 in DC mode), upgradeable to higher capacity in future releases

Integrated small cell form factor for quick and easy installation

Configured out-of-the-box to work with The Wilson Platform

Supports Citizens Broadband Radio Service (CBRS)

Interoperable with standard LTE Evolved Packet Core (EPC)

Supports TR-069 network management interface

Ethernet Interface	1 optical (SFP) and 1 RJ-45 Ethernet interface (1 GE)
Power Supply	12 VDC 2A, PoE+/48 V 0.6 A, complies with IEEE 802.3at standard
Protocols Used	IPv4/IPv6 (Dual Stack), UDP, TCP, ICMP, SNMPv2c, NTP, SSH, IPsec, TR-069, HTTP/HTTPs, 1588v2, DHCP
VLAN/VxLAN	802.IQ/VxLAN
LED Indicators	4 x status LED CELL1/CELL2/ALM/PWR





Performance

	2x20 MHz	DL (Mbps)	UL (Mbps)
	UL/DL Config 1	2x105	2x28
	UL/DL Config 2	2x145	2x14
Deals Data Data (DC)	UL/DL Config 6	2x85	2x35
Peak Data Rate (DC)	2x10 MHz	DL (Mbps)	UL (Mbps)
	UL/DL Config 1	2x51	2x14
	UL/DL Config 2	2x70	2x7
	UL/DL Config 6	2x42	2x17
	2x20 MHz	DL (Mbps)	UL (Mbps)
	UL/DL Config 1	210	56
	UL/DL Config 2	290	28
	UL/DL Config 6	170	70
	2x10 MHz	DL (Mbps)	UL (Mbps)
	UL/DL Config 1	102	28
	UL/DL Config 2	140	14
Peak Data Rate (CA)	UL/DL Config 6	84	34
20 MHz + 10 MHz		DL (Mbps)	UL (Mbps)
	UL/DL Config 1	156	42
	UL/DL Config 2	215	21
	UL/DL Config 6	127	51
	20 MHz + 15 MHz	DL (Mbps)	UL (Mbps)
	UL/DL Config 1	182	49
	UL/DL Config 2	250	24
	UL/DL Config 6	148	61
User Capacity	Up to 96 RRC connected users per cell (4 users per TTI) SC/CA: 96 RRC connected users DC: 96+96 RRC connected users 		
Latency	30 milliseconds		
Receive Sensitivity	-100 dBm(per channel)		
Modulation	MCS0 (QPSK) toMCS27 (256QAM) DL: QPSK, 16QAM, 64QAM, 256QA UL: QPSK, 16QAM, 64QAM	М	
Transmit Power Range	0 to 24 dBm per channel (combin	ed +30 dBm, configurable) (1 dB int	erval)
Quality of Service	Nine-level priority indicated by Qc	oS Class Identifiers (QCI)	
ARQ/HARQ	Supported		
Synchronization	GPS, 1588v2		



Modulation Levels (Adaptive)

MCS	Modulation Scheme	RSRP (dBm)
0-4	QPSK	-120 ≤ RSRP < -110
5–9	16 QAM	-110 ≤ RSRP < -100
10-19	64 QAM	-100 ≤ RSRP < -85
20-27	256 QAM	RSRP ≥ -85

NOTE: The information provided is for reference only as the environment can impact modulation levels.

Features

Voice	VoLTE*
NSA	Supported
Traffic Offload	Local breakout
Layer 2 Support	Transparent Bridge Mode
Maintenance	 Local/Remote Web maintenance Online status management Performance statistics Fault management Local/Remote software upgrade Logging Connectivity diagnosis Automatic start and configuration Alarm reporting User information tracing Signaling trace

* Planned for future release

Link Budget

RF Antenna	3 dBi built-in omni antenna
GPS Antenna	External GPS antenna, SMA connector
Maximum EIRP	33 ± 1 dBm
Power Control	UL Open-loop/Closed-loop Power Control, DL Power Allocation (3GPP TS 36.213 compliant)





Physical

MTFB	≤ 150000 hours
MTTR	≤1hour
Operating Temperature	23°F to 113°F / -5°C to 45°C
Storage Temperature	14°F to 122°F / -10°C to 50°C
Humidity	5%to 95%RH
Atmospheric Pressure	70 kPa to 106 kPa
Power Consumption	≤ 20W
Weight	3.3 lb/1.5 kg
Dimensions (HxWxD)	8.7 x 8.7 x 1.9 inches 220 x 220 x 48millimeters
Installation	Ceiling or wall mount

Global Part Numbers

P5G-API100	LTE100 Indoor TDD Access Point – – LTE Release 15, 4x250mW(24 dBm), 1GE+1OPT, 3 dBi built-in antenna, 3.5 GHz (3550MHz–3700MHz), B42/43/48 • FCC Certification: 2AG32PBS31012 • IC Certification: 20982-PBS31010
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