

G501

Outdoor Access Point



The GXC G501 is an advanced, two-carrier outdoor Access Point compliant with 3GPP LTE TDD technology. Featuring 4x1W output power, it supports Carrier Aggregation (CA) and Dual Carrier (DC) modes, allowing flexible deployments.



Technology Specifications

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) B42 (3400MHz-3600MHz)
Channel Bandwidth	SC: 5/10/15/20MHz CA: 40MHz (maximum aggregated)
Multiplexing	MIMO: 2x2 (DL)
Security	Radio: SNOW 3G/AES-128 Backhaul: IPsec (X.509 AES-128, AES-256, SHA-128, SHA-256)
Synchronization	GPS, 1588v2
Security	Radio: SNOW 3G/AES-128 Backhaul: IPsec (X.509 AES-128, AES-256, SHA-128, SHA-256)

Interfaces	
Ethernet Interface	1 optical (SFP) and 1 RJ-45 Ethernet interface (1 GE)
Power Supply	-40 VDC to -57 VDC, Nominal -48 VDC AC adaptor (multi-national standards)
LED Indicators	4 x status LED CELL1/CELL2/ALM/PWR
Antenna Connection	4 x N-Type connector, external high-gain antenna
GPS Antenna	N-Type connector, external GPS antenna,

Link Budget Specifications	
Antenna Connection	External high-gain antenna with N-Type connectors, either (2) 2-port antennas or (1) 4-port antenna
GPS Antenna	External GPS antenna, N-Type connector
Power Control	UL Open-loop/Closed-loop Power Control, DL Power Allocation (3GPP TS 36.213 compliant)
User Capacity	Up to 96 RRC connected users per cell (4 users per TTI) <ul style="list-style-type: none"> • SC/CA: 96 RRC connected users DC: 96+96 RRC connected users
Maximum Deployment Range	12 kilometers
Latency	30 milliseconds
Receive Sensitivity	-100 dBm (per channel)
Modulation	MCS0 (QPSK) to MCS27 (256 QAM) DL: QPSK, 16 QAM, 64 QAM, 256 QAM UL: QPSK, 16 QAM, 64 QAM
Transmit Power Range	0 to 30 dBm per channel (combined +36 dBm, configurable) (1 dB interval)

Physical Specifications	
Surge Suppression	Yes
Power Interface Lightning Protection	Differential Mode: ±10 KA
MTBF	≥ 150000 hours
MTRR	≤ 1 hour
Ingress Protection Rating	IP66
Operating Temperature	-40°F to 131°F (-40°C to 55°C)
Storage Temperature	-49°F to 158°F (-45°C to 70°C)
Humidity	5% to 95% RH
Atmospheric Pressure	70 kPa to 106 kPa
Power Consumption	Typical 60 W, Maximum 100 W
Weight	16.5 lb. / 7.5 kg
Dimensions (H x W x D)	With joint: 13.1 x 9.4 x 4.1 inches (333 x 240 x 105 millimeters) Without joint and handle: 11.8 x 9.4 x 4.1 inches (300 x 240 x 105 millimeters)
Installation	Pole or wall mount

Global Part Numbers	
GXC-APOC-501	G501 Outdoor TDD Access Point – LTE Release 15, 4x1W (30 dBm), 1GE+1OPT, 3.5 GHz (3550 MHz–3700 MHz), B42/43/48, external antenna

*Specifications and ID are subject to change without notice.