



CONNECTING COMMUNITIES THROUGH
WIRELESS SOLUTIONS



FWC-122-25

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CATEGORY 12 BAND 41 OUTDOOR CPE

Supporting up to 80 MHz bandwidth with carrier aggregation and 256 QAM modulation in downlink, BLiNQ's FWC-122-25 CPE provides a high capacity solution to meet the connectivity needs of a wide variety of users.

Its rugged housing, installation bracket and high IP67 rating also provides peace of mind for deployments in all kinds of tough outdoor environments.



**256QAM
Downlink**



**2x2 MIMO with
80 MHz CA Max.**



**802.3at POE
Powered**



**Supports 1.8V
and 3V SIM/USIM**

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SUMMARY

HERE ARE SOME KEY FEATURES:

- Supports TDD-LTE Band 41*
- 3GPP Release 12 Compliant
- Supports up to UE LTE Downlink Category 12/
Uplink Category 13 PHY Rate **
- Supports 4x4 MIMO with 40 MHz CA
Maximum and DL 2x2 MIMO up to 80 MHz CA
- Supports DL 256QAM with DL 2x2 MIMO only
(Contiguous and Non-Contiguous Bandwidth)
- Supports UL 2Tx (CDD / UL_CA/ UL_MIMO)
- Physical 2Tx & 4Rx in RF Front End
- Supports 1.8V and 3V SIM and USIM Card for
LTE Mode
- Supports Dynamic Host Configuration Protocol
- Built-in Web Server for Web-Based
Configuration
- Password Protected Access and Configuration
- Supports IEEE 802.3, IEEE 802.3u, 802.3ab
(10/100/1000 Mbps)
- Supports 802.3at POE standard - Available on
outdoor rated WAN port
- Supports NAT/Tunnel/Bridge/Router Mode
- Supports VPN Pass-Through
- IP67 Environmental Rating

* TDD Cat 12 with 4x4 + 40MHz carrier aggregation peak downlink throughput is around 440Mbps @ TDD Config 2 SSF 7 with 64QAM ; uplink throughput is around 30Mbps @ 20+20MHz TDD Config 2 SSF 7 with 64QAM

** TDD Cat 13 UL CA +64 QAM is around 30 Mbps for uplink.



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SPECIFICATIONS



MECHANICAL, ENVIRONMENTAL & REGULATORY		
	Dimension (L x W x H)	9.8" x 9.8" x 2.2" (250 x 250 x 55mm)
	Weight	3.5 lbs (1.6 kg)
	PoE	802.3at
	Power	Input: Universal range 100~240V AC ; Output: 56 VDC
	Reset/Reboot Button	Tactile Switch (inside box)
	Operating Humidity	5% to 95%
	Storage Humidity	5% to 95%
	Operational Temperature	-40°F to 131°F (-40°C to 55°C)
	Storage Temperature	-40°F to 158°F (-40°C to 70°C)
	FCC	FCC Certified
	Safety	IEC 60950-22:2016, IEC 62368-1:2014 compliant
	RF Exposure	Meets 47 CFR FCC Part 2.1091
NETWORKING & OAM		
	LTE BB ASIC	GDM7243A (GCT Semiconductor)
	LTE RF ASIC	GRF7243A (GCT Semiconductor)
	Ethernet LAN Port	1 x RJ-45 Port 10/100/1000 Auto-Sensing, Auto-MDX
	LED Indicators	Signal Strength / LAN / SIM
	SIM Function	1.8V / 3V SIM and USIM card
	PIN/PUK Code	Yes (Ready with chipset)
	Stack	IPv4, IPv6, Dual
	NAT/Dynamic NAT	Yes
	Router Mode	Yes
	Bridge Mode	Yes

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SPECIFICATIONS



	Tunnel Mode	GRE, L2TP
	DCHP Server in LAN	Yes (For NAT mode, support 253 clients max.)
	DNS Relay	Yes
	DDNS Client	Yes
	VPN Pass-Through – IPSec/PPTP/L2TP	Yes
	UPNP	Yes
	HTTP(s) Server	Yes
	ALG Support (FTP/SIP/...)	Yes
	Networking Debug/Testing	IPerf, Ping, Traceroute
RADIO SPECIFICATION		
	Frequency Band	TDD LTE Band 41
	Peak DL Throughput	440 Mbps (4x4 + 40 MHz CA, TDD Config 2-7)
	Peak UL Throughput	30 Mbps (TDD Config 2-7 with 64 QAM)
	Carrier Aggregation	2CC up to 20 MHz each
	DL Carrier Aggregation Bandwidth	80 MHz max.
	UL Carrier Aggregation Bandwidth	40 MHz max. with 2CC
	UL 2Tx Diversity	26 dBm
	UL 2Tx CA	23 dBm
	UL 2Tx MIMO	23 dBm
	Tx Power Dynamic Range	63 dB
	Receiver Sensitivity (@ 20 MHz)	-96 dBm
	Channel Bandwidth	10, 20 MHz

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SPECIFICATIONS



	DL Carrier Aggregation Matrix	DL MIMO 2x2 – Intra, Contiguous & Non-Contiguous DL MIMO 4x4 – Intra Band Only
	DL Modulation	4x4 MIMO with 64 QAM Max. 2x2 MIMO with 256 QAM Max.
	UL Modulation	Max. 64 QAM
	LTE Compliance	3GPP Release 12
	Antenna Peak Gain (Single)	12.5 dBi (4 antennas)
DEVICE MANAGEMENT & SECURITY		
	WEB	Yes
	SNMP	Ready for IoT
	TR-069	Ready for IoT
	FOTA Upgrade	Yes
	System Log/Diagnostic	Yes (Chipset embedded tool)
	Username/Password Configuration	Yes
	L2/L3 Firewall	Basic Firewall/Port Forwarding/Port Trigger/DMZ/Remote WAN Ping/Remote Web Access Control
	Time Zone Configuration	Yes
	Dual Firmware	Yes (Switchable)
	Firmware Verification	Yes (Use digital signal to verify installed software)

An aerial photograph of a city harbor, likely Hong Kong, during sunset. The sky is a mix of blue and orange, with wispy clouds. The water is a deep blue-green, filled with numerous boats and ships. The city skyline is dense with skyscrapers, including a prominent white tower in the center. The overall scene is vibrant and captures the energy of a major urban center.

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