

CONNECTING COMMUNITIES THROUGH WIRELESS SOLUTIONS



FWC-145IN-35

(CAT. A AND EUD VARIANT)



FWC-145IN-35 summary

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FWC-145IN-35

CATEGORY 12 HIGH SPEED INDOOR CPE



256QAM Downlink



Multiple Connections/Ports



Supports 1.8V and 3V SIM/USIM

BLiNQ's FWC-145IN-35 Indoor CPE is a Category 12/13 Single Mode CPE that supports BLiNQ's FW-300i, FW-600 and X-300i solutions. Complying with the IEEE 802.11 wireless standard, this indoor CPE features gigabit Ethernet ports for fast and efficient connections.

With an easy, simple installation and a fully automated deployment, this CPE is the perfect solution for any indoor setting.

- 2 SKUs available:
- FWC-145IN-35 (CBSD CAT. A Certified)

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FWC-145IN-35E (EUD Certified)

FWC-145IN-35 summary

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HERE ARE SOME KEY FEATURES:

- Supports TDD-LTE Band 42/43 & 48*
- 3GPP Release 12 Compliant
- Supports up to UE LTE Downlink Category 12 / Uplink Category 13 PHY Rate**
- Supports 4x4 MIMO with 40 MHz CA Max.
- Supports DL 256QAM with DL 2x2 MIMO only up to 4 Carrier Aggregation
- Supports UL 2Tx (CDD / UL_CA/ UL_MIMO)
- Physical 2Tx & 8Rx 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 up to 2 RJ45 Giga Ethernet Ports
- Supports NAT/Tunnel/Bridge/Router Mode
- Supports VPN Pass-Through and End Point
- Supports 802.11b/g/n (2 x 2) Wi-Fi Technology
- Supports 802.11ac Wave 2 (2 x 2) Wi-Fi Technology

(III) (III)	
(I) (1) (7) (5)	
(i) (i) (i)	

* FCC Certified for only Band 48

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

FWC-145IN-35 SPECIFICATIONS





MECHANICAL, ENVIRONMENTAL & REGULATORY		
	FWC-145IN-35	FWC-145IN-35E
Dimension (H x D)	7.9" x 5.3" (200 mm x 134 mm)	
Weight	1.1 lbs (0.5 kg)	
Power	Input: Universal range 100~240V AC Output: 12 V/1.5A DC	
Reset/Reboot Button	Tactile Switch (inside box)	
Operating Humidity	0% to 95%	
Storage Humidity	0% to 95%	
Operational Temperature	32°F to 104°F (0°C to 40°C)	
Storage Temperature	-4°F to 140°F (-20°C to 60°C)	
Radio (CBRS)	FCC Part 96 (Cat. A)	FCC Part 96 (EUD)
Radio (Wi-Fi 2.4 GHz)	FCC Part 15C	FCC Part 15C
Radio (Wi-Fi 5 GHz)	FCC Part 15E	FCC Part 15E
NETWORKING & OAM		
LTE BB ASIC	GDM7243A (GCT Semiconductor)	
LTE RF ASIC	GRF7243A (GCT Semiconductor)	
11b/g/n Wi-Fi SoC	RTL8192ES (Realtek)	
11ac Wi-Fi SoC	RTL8812BEH (Realtek)	
Ethernet LAN Port	2 x RJ45 Port; 10/100/1000 Auto-Sensing, Auto-MDX	
LED Indicators	Signal Strength / LAN / Wi-Fi / SIM / Power	
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	
Tunnel Mode	GRE and L2TP	
DCHP Server in LAN	Yes (253 clients max.)	

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DNS Relay	Yes
DDNS Client	Yes
VPN Pass-Through - IPSec/PPTP/L2TP	Yes
UPNP	Yes
HTTP(s) Server	Yes
ALG Support (FTP/SIP/etc)	Yes
Networking Debug/Testing	IPerf, Ping, Traceroute
RADIO SPECIFICATION	
Frequency Band	TDD LTE Band 48, 42/43*
LTE Compliance	3GPP Release 12
Channel Bandwidth	10, 20 MHz
Peak DL Throughput	440 Mbps (TDD Config 2-7)
Peak UL Throughput	30 Mbps (TDD Config 2-7 with 64 QAM)
Carrier Aggregation	DL - 4CC up to 20 MHz each (w. DL 2x2) DL - 2CC up to 20 MHz each (w. DL 4x4) DL - 1CC up to 20 MHz each (w. DL 4x8) UL - Maximum 40 MHz with 2CC
DL Carrier Aggregation Bandwidth	80 MHz max.
UL Carrier Aggregation Bandwidth	40 MHz max. with 2CC
UL 2Tx Diversity	23 dBm
UL 2Tx CA	23 dBm
UL 2Tx MIMO	23 dBm
Tx Power Dynamic Range	63 dB
Receiver Sensitivity (@ 20 MHz)	-96 dBm
МІМО	DL 2x2 / 4x4 / 8x4 UL 1x2 (with diversity); UL 2x2
DL Modulation	4x4 MIMO with 64QAM Max. 2x2 MIMO with 256QAM Max.
UL Modulation	Max. 64 QAM

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USER INTERFACE & SECURITY	
WEB	Yes
SNMP	Yes
TR-069	Ready for IoT
TR-0143	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
Firmware	Dual Image (Switchable)
Firmware Verification	Yes (Use digital signal to verify installed software)

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