



INTRODUCTION

Baicells 5G indoor CPE supports one network architectures, 5G Standalone (SA) , with faster transmission speed, better bearing capacity and lower network delay.

CPE supports 5G Sub6 band access to base station, LAN side supports WIFI6 access, providing perfect experience for customers in laptop, gateway, industrial monitoring, telemedicine, unmanned aerial vehicle (UAV), virtual reality and immersive experience (VR and AR).

The product comes with a standard one-year warranty; an extended warranty is available.

HIGHLIGHTS

NOTE: Features can vary based on model or region.

- 5G SA Dual mode
- Supports NR Bands
N1/3/5/8/28/40/41/78/79
- Supports TDD Bands
B34/B38/B39/B40/B41
- Supports LTE FDD Bands
B1/B3/B5/B8
- 5G NR Complies with 3GPP Release 17 standards; LTE Complies with 3GPP Release 9 standards
- 1000 Mbps Ethernet interface
- Supports WiFi6 AX3600, dual-bands
- Peak data rate of up to NR SA DL 223 Mbps, UL 123 Mbps; LTE DL 195Mbps, UL 105Mbps
- 256QAM for DL and 256QAM for UL as the highest order modulation formats.
- Built-in Omni-directional Wi-Fi antenna
- External SMA 5G antenna
- GUI-based local and remote Web management
- Excellent Non-Line-of-Sight (NLOS) coverage
- Supports TR069 network management protocol
- Cell lock, SIM lock, and pin lock
- User-friendly LED status indicators
- Transparent bridge mode (L2 Support).
- Support voLTE/voNR

TECHNOLOGY

Standard	3GPP Release17
Mode	TDD/FDD
Channel Bandwidth	NR: 5~20 MHz
Multiplexing	2x2MIMO
Security	Firewall: IP/MAC/URL filter; ACL rule

INTERFACE

Ethernet Interfaced	1 RJ-45 port 10/100/1000 auto-sensing, auto-MDX, WAN/LAN
Voice Port	1 RJ-45/11 port for VoLTE and VoNR
Network Management	Web GUI, ACS, OMC, SNMP
Protocols Used	IPv4/IPV6, UDP, TCP, IP, ICMP, SNMPv2c, SNMPv3c, HTTPS, SSH, TELNET, TR069, TR104, CBSD

PERFORMANCE

Peak Rate		DL (Mbps)	UL (Mbps)
	NR SA	Max. 223	Max. 123
	LTE	Max. 195	Max. 105
Modulation	DL: QPSK, 16QAM, 64QAM, 256QAM UL: QPSK, 16QAM, 64QAM, 256QAM		
Transmit Power	Power Class 3 (23dBm $\pm$ 1.5dBm) for LTE Bands Power Class 3 (23dBm $\pm$ 1.5dBm) for NR Bands Power Class 2 (26dBm $\pm$ 1.5dBm) for B38/B41/N41/N78/N79		
Receive Sensitivity	N41 (10MHz), -91dBm N78 (10MHz), -91dBm		

FEATURES

Network Mode	NAT or Bridge
SIM	PIN management, SIM lock
Network Connection	Auto or manual

LTE Scan Mode	Full band scan or frequency lock
VPN	L2TP L2/L3, GRE L2/L3
NAT	Port forwarding, port trigger, DMZ, ALG
Diagnostics	TCP dump, ping, traceroute
Statistics	LTE status; connection/system up time; device status; DHCP client list; Wi-Fi station list; firewall status
Maintenance	Date and time setting; reboot; restore factory settings; restore or back up configuration file; firmware upgrade locally or OTA

LINK BUDGET

Antenna Type	Internal omni , 1T2R
Antenna Gain	1~5 dBi
Max Transmit Power	26dBm for B38/B41/N41/N78/N79, otherwise 23dBm.
Maximum EIRP	24~31dBm

PHYSICAL

LED Indicators	Power, WLAN, Internet, Cellular
USIM	1.8V/3V 4FF
Restore Button	Press for 10 seconds to restore the CPE to its factory settings
WPS Button	Press for WPS or Easy Mesh* configuration
Power Switch	Push 1.5s for ON/OFF
Temperature	- Operating Temperature: 14°F to 113°F / -10°C to 45°C - Storage Temperature: -4°F to 158°F / -20°C to 70°C
Humidity	5%~95%
Power Consumption	<20 W
Power Supply	With DC Adaptor: - INPUT 100-240VAC - OUTPUT 12VDC 1A
Weight	TBD
Dimension	TBD

WI-FI SPECIFICATIONS

Standard	IEEE 802.11b/g/n/ax
Channel Bandwidth	20MHz,40MHz,80 MHz,160MHz
Frequency	2.4 GHz, 5GHz,6GHz*
MIMO	2x2
Peak Rate	802.11b: 11Mbps 802.11g: 54Mbps, 802.11n: 300mbps, 802.11ac: 867Mbps 802.11ax 5G: 2400Mbps 802.11ax 2.4G: 574Mbps
Modulation	DSSS/CCK, OFDM
Receive Sensitivity	802.11b BW20 : -99.5dBm (1M), -91dBm (11M) 802.11g BW20 : -96dBm (6M), -78dBm (54M) 802.11n: HT20 : -95.5dBm (MCS0), -75dBm (MCS7) 802.11n: HT40 : -93dBm (MCS0), -72dBm (MCS7) 802.11ac: VHT20: -95.5dBm (MCS0), -71dBm (MCS9) 802.11ac: VHT40: -93dBm (MCS0), -69dBm (MCS9) 802.11ax: HE20: -95.5dBm (MCS0), -65.5dBm (MCS11) 802.11ax: HE40: -93dBm (MCS0), -63dBm (MCS11)
Max Output Power	20 dBm * 2 + 20 dBm * 2
Antenna Type	Internal omni 2T2R
Antenna Gain	3-5 dBi
Users	128

MODEL NUMBERS

EG25A0R-NR20	Photon ID63R Indoor Redcap CPE,1T2R, 1~5 dBi, internal omni WIFI antenna,External SMA 5G antenna, 1 GE*1 , DC 12V 1A 5G Sub-6: N1/N3/N5/N8/N28/N40/N41/N78/N79 LTE FDD: B1/B3/B5/B8
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Photon ID63R EG25A0R



	LTE TDD: B34/B38/B39/B40/B41
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NOTE: Customized versions can be requested.

* Planned for future release