

Photon OD63H EG8562C

Outdoor Customer Premise Equipment Datasheet



INTRODUCTION

Baicells 5G outdoor CPE supports two network architectures, 5G Standalone (SA) and non-Standalone (NSA), 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, 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/NSA Dual mode
- Supports NR Bands
N1/N3/N5/N7/N8/N20/ N28/ /N38/N40/
N41//N71/N75/N76/N77/N78
- Supports TDD Bands
B38/B40/B41/B42/B43
- Supports LTE FDD Bands
B1/ B3/B5/B7/B8/B20/B28/B32/B71
- Complies with 3GPP Release 16 standards
- 2500Mbps Ethernet interface
- Peak data rate of up to NR SA DL 2500 Mbps, UL 900 Mbps; NR NSA DL 3500Mbps, UL 555Mbps
- 256QAM for DL and 256QAM for UL as the highest order modulation formats.
- Built-in bipolar directional 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
- Pole or wall mounted

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TECHNOLOGY

Standard	3GPP Release16
Mode	TDD/FDD
Channel Bandwidth	NR: 5~100 MHz
Multiplexing	NR: DL 4x4 MIMO, UL 2x2MIMO
Security	Firewall: IP/MAC/URL filter; ACL rule

INTERFACE

Ethernet Interfaced	1 RJ-45 port 10/100/1000/2500 auto-sensing, auto-MDX, PoE
Protocols Used	IPv4/IPV6, UDP, TCP, IP, ICMP, SNMPv2c, SNMPv3c, HTTPS, SSH, TELNET, TR069, TR104, CBSD
Network Management	Web GUI, ACS, OMC, SNMP
VLAN	802.1Q

PERFORMANCE

Peak Rate		DL (Mbps)	UL (Mbps)
	NR SA	Max. 2500	Max. 900
	NR NSA	Max. 3500	Max. 555
	LTE	Max. 1600	Max. 211
Modulation	DL: QPSK, 16QAM, 64QAM, 256QAM UL: QPSK, 16QAM, 64QAM, 256QAM		
Carrier Aggregation	LTE: Up to 5DL / 4UL EN-DC: Up to LTE 5DL + FR1 2DL or LTE 4DL + FR1 2DL / LTE 3UL + FR1 2UL NR SA: Up to 2*FR1		
Transmit Power	Power Class 2 (26dBm \pm 1.5dBm)		
Receive Sensitivity	-86dBm		

FEATURES

Network Mode	NAT or Bridge
SIM	PIN management, SIM lock

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Network Connection	Auto or manual
LTE Scan Mode	Full band scan or frequency lock
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 directional, 2T4R
Antenna Gain	2~8dBi
Max Transmit Power	NR:26dBm x2

PHYSICAL

IP Protection Rating	IP65
LED Indicators	MIU, LTE, SIM, LAN, PWR, LTE Signal
USIM	1.8V/3V 2FF
Restore Button	Press for 10 seconds to restore the CPE to its factory settings
Temperature	<ul style="list-style-type: none">Operating Temperature: -40°F to 131°F / -40°C to 55°CStorage Temperature: -40°F to 158°F / -40°C to 70°C
Humidity	5%~95%
Power Consumption	<24 W
Power Supply	With PoE Adaptor: <ul style="list-style-type: none">INPUT 100-240VACOUTPUT 24VDC 1A
Weight	TBD
Dimensions	TBD

MODEL NUMBERS

EG8562C-NR9Y	Photon OD63H Outdoor NR CPE, 2T4R, 2~8 dBi, internal directional antenna, 1 GE*1 , POE 24V 1A
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5G Sub-6:

N1/ N3/N5/N7/N8/ /N20/ N28/ N38/N40/N41/N71/N75/N76/N77/N78

LTE FDD: B1/3/5/7/8/20/28/32/71

LTE TDD: B38/40/41/42/43

WCDMA: B1/5/8

FCC certification: TBD

IC certification: TBD