

AtomID12G EG3037N

Indoor Customer Premise Equipment Datasheet



INTRODUCTION

Baicells CAT12 Indoor User Equipment (UE) brings broadband data services to end-users and it can support LTE network, and embedded Wi-Fi AP.

The product can connect with wireless and wired devices, including mobile phones, laptops, tablets, and other smart devices, can simultaneously access the CPE. The product comes with a standard one-year warranty; an extended warranty is available.

HIGHLIGHTS

NOTE: Features can vary based on model or region.

- Supports LTE Bands
1/2/3/4/5/7/8/12/13/14/20/25/26/28/29/
30/32/38/40/41/42/43/48/66/71
- Complies with 3GPP Release 12 CAT12 standards
- 1000 Mbps Ethernet interface
- LTE FDD Peak data rate of up to DL Max 600 Mbps, UL Max 150 Mbps
- LTE TDD Peak data rate of up to DL Max 430 Mbps, UL Max 90 Mbps
- 256QAM for DL and 64QAM for UL as the highest order modulation formats.
- Supports WiFi6 AX3000, dual-bands
- 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).

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TECHNOLOGY

LTE Standard	3GPP Release12 LTE-A, CAT12
LTE Mode	TDD / FDD
Channel Bandwidth	SC: 5/10/15/20 MHz CA: 40 MHz as maximum aggravated bandwidth
Multiplexing	DL 4x4 MIMO
Security	Firewall: IP/MAC/URL filter; ACL rule

INTERFACE

Ethernet Interfaced	3 RJ-45 port 10/100/1000 auto-sensing, auto-MDX
Protocols Used	IPv4/IPV6, UDP, TCP, IP, ICMP, SNMPv2c, SNMPv3c, HTTPS, SSH, TELNET, TR069, CBSD
Network Management	Web GUI, ACS, OMC, SNMP
VLAN	802.1Q

PERFORMANCE

Peak Rate	2x20MHz (CA)	DL (4x4 MIMO, 256QAM)	UL (64QAM)
	FDD	600 Mbps	150 Mbps
	TDD	430 Mbps	90 Mbps
Modulation	DL: QPSK, 16QAM, 64QAM, 256QAM UL: QPSK, 16QAM, 64QAM		
Receive Sensitivity	-101±2 dBm @ QPSK, 20 MHz, 25°C		

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
WLAN	MSSID isolation
VPN	L2TP L2/L3, GRE L2/L3

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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, 2T4R
Antenna Gain	2~6dBi
Max Transmit Power	23dBm (combined, to regional EIRP limit)
Maximum EIRP	25~29 dBm

WLAN

Standard	IEEE 802.11b/g/n/ax
Channel Bandwidth	20MHz, 40MHz, 80 MHz, 160MHz
Frequency	2.4 GHz, 5GHz
MIMO	2x2
Peak Rate	802.11b: 11Mbps 802.11g: 54Mbps, 802.11n: 300mbps, 802.11ac: 1732Mbps 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)

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	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

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
Power Switch	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	<24 W
Power Supply	With DC Adaptor: INPUT 100-240VAC OUTPUT 12VDC 2A
Weight	About 11.9oz / 337g
Dimensions	7.5 x 6.4 x 2.8 inches / 161 x 163 x 72 millimeters

GLOBAL PART NUMBER

EG3037N-M40	Indoor Cat12, 2T4R, 3.5 GHz, 2~6 dBi, 1GE *3, 12V DC 2A, B1/3/5/7/8/20/28/32/38/40/41/42/43
EG3037N-M41	Indoor Cat12, 2T4R, 3.5 GHz, 2~6 dBi, 1GE * 3, 12V DC 2A, B2/4/5/7/12/13/14/25/26/29/30/41/48/66/71

NOTE: Customized versions can be requested.