

AtomID04G CAT4 EG2020I

Indoor Customer Premise Equipment Datasheet



INTRODUCTION

Baicells Networks CAT4 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 FDD and TDD Bands
B1/3/5/7/8/20/28/38/40/41
- Supports WCDMA Bands
B1/5/8
- Complies with 3GPP Release 9 CAT4 standards
- 100 Mbps Ethernet interface
- Peak data rate of up to DL 100 Mbps, UL 50 Mbps
- 64QAM for DL and 16QAM for UL as the highest order modulation formats.
- 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).
- Built in battery 5000mAh*(Optional)
- Support voLTE /voIP *(Optional)

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TECHNOLOGY

LTE Standard	3GPP Release9, CAT4
LTE Mode	FDD and TDD
Channel Bandwidth	5/10/15/20 MHz
Frequency Bands	LTE TDD Mode: B1 (UL:1920 MHz - 1980 MHz)(DL:2110 MHz - 2170 MHz) B3 (UL:1710 MHz - 1785 MHz)(DL:1805 MHz - 1880 MHz) B5 (UL:824 MHz - 849 MHz)(DL:869 MHz - 894 MHz) B7 (UL:2500 MHz - 2570 MHz)(DL:2620 MHz - 2690 MHz) B8 (UL:880 MHz - 915 MHz)(DL:925 MHz - 960 MHz) B20 (UL:832 MHz - 862 MHz)(DL:791 MHz - 821 MHz) B28 (UL:703 MHz - 748 MHz)(DL:758 MHz - 803 MHz) B38 (2570 MHz - 2620 MHz) B40 (2300 MHz - 2400 MHz) B41 (2496 MHz - 2690 MHz)
Multiplexing	DL 2x2 MIMO
Security	Firewall: IP/MAC/URL filter; ACL rule

INTERFACE

Ethernet Interfaced	2* RJ-45 port 10/100 auto-sensing, auto-MDX 1*RJ-11 port, VoLTE
Protocols Used	IPv4, UDP, TCP, IP, ICMP, SNMPv2c, SNMPv3c, HTTPS, SSH, TELNET, TR069
Network Management	Web GUI, ACS, OMC, SNMP
VLAN	802.1Q

PERFORMANCE

Peak Rate	20MHz	DL (2x2 MIMO, 64QAM)	UL (16QAM)
	FDD	100 Mbps	50 Mbps
	TDD	100 Mbps	10 Mbps
Modulation	DL: QPSK, 16QAM, 64QAM		

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	UL: QPSK, 16QAM
Receive Sensitivity	LTE: <-96.3 dBm @ QPSK, 20 MHz, 25°C WCDMA B1: <-106.7 WCDMA B5: <-104.7 WCDMA B8: <-103.7

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
NAT	Port forwarding, port trigger, DMZ, ALG
Diagnostics	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	2~5 dBi
Max Transmit Power	23dBm
Maximum EIRP	25~28dBm

WLAN

Standard	IEEE 802.11b/g/n
Channel Bandwidth	20 MHz, 40 MHz
Frequency	2.4 GHz
MIMO	2x2

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Peak Rate	802.11n: 300 Mbps
Modulation	DSSS/CCK, OFDM
Sensitivity	-64 dBm @ 65 Mbps, typical for 802.11n -65 dBm @ 54 Mbps, typical for 802.11g -76 dBm @ 11 Mbps, typical for 802.11b
Max Output Power	14±3 dBm
Antenna Type	built-in omni, 2T2R
Antenna Gain	5 dBi
Active Users	32

PHYSICAL

LED Indicators	Power, WLAN, Internet, Cellular
USIM	1.8V/3V 2FF, Mini SIM
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	<10 W
Battery Capacity	5000~6400mAh
Power Supply	With DC Adaptor: - INPUT 100-240VAC - OUTPUT 8.4VDC 2A
Weight	200 x 48 x 163 mm
Dimensions	910g

GLOBAL PART NUMBER

EG2020I-M21	Indoor Cat4, 1T2R, omni antenna 2~5 dBi, Band1/3/5/7/8/20/28/38/40/41, 1 FE*2, RJ11*1, internal Battery 5000mAh, 8.4VDC 2A
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NOTE: Customized versions can be requested.