

## Brightlayer Industrial BL-G200 cellular gateway



# Setting a new standard for IoT embedded solutions



The BL-G200 is the industry's smallest, most rugged programmable LTE cellular gateway. As part of an integrated, secure edge-to-cloud solution, the BL-G200 enables rapid, scalable and global IoT deployments for any connected machine or infrastructure, with and without industrial protocols.

# EATON

Powering Business Worldwide

### Features



#### Highly programmable

The BL-G200 gateway enables customers to capture data from Eaton and non-Eaton hardware components and push them to the cloud to support reporting and analytics.



#### Industrial grade

Purpose built solution that fits industrial applications. Meets MIL-STD-810 standard for vibration and mechanical shock. Certified for hazardous location operation under Class I, Division 2 or Zone 2.



#### Extensible

Comprehensive built-in interfaces to connect easily to any system, plus flexible hardware expansion.



#### Ready-to-connect

Maintains a secure and reliable connection to both fixed and mobile assets, globally.



#### Scalable

Supports LTE-M and NB-IoT with 2G fallback for global deployment.



#### Secure

End-to-end security from the device to the cloud to support authentication, network firewall, secure boot and secure credential storage.

## Technical specifications

Description	Specification
Air interface	LTE Cat-M1/NB1, EDGE, GSM, GPRS
Frequency bands	
4 G LTE	B1, B2, B3, B4, B5, B8, B12, B13, B17, B18, B19, B20, B26, B28
3 G UMTS/HSPA+	—
2 G EDGE/GSM/GPRS	850, 900, 1800, 1900
Approvals	
Regulatory	FCC/IC, CE, RoHs, REACH, RCM, Safety IEC 60950-1, UL® Listed, GCF, PTCRB, E-Mark
Power voltage	4.75 Vdc to 32 Vdc
Radio module	WP7702
Application processor	
Processor	ARM® Cortex™-A7
Core frequency	1.3 GHz
RAM (used by BL-G200 main processes)	128 MB
Flash (used by BL-G200 main processes)	256 MB (minimum 100,000 write cycles)
Interfaces	
Ethernet	BL-G200 only: 10/100BASE-T, RJ45
UART	BL-G200 only: configurable RS-232/RS-485 Sub-D9
USB	USB V2.0 Micro-B connector
LEDs	1 signal LED, 1 user LED
I/Os	1x digital input or internal pull-up control 1x digital input, internal pull-up control or analog input 1x digital input, internal pull-up control or digital output
Pushbutton	For user app (GPIO)
Cellular antenna	SMA
GNSS antenna	SMA with active bias
Hardware extension	1x IoT connector
Mounting options	Bracket for screw/wall and DIN rail mounting
Location services	A-GPS, GLONASS, GALILEO
Embedded software	
Application framework	BL-G200 platform
Cloud services	BL-G200 solution, FOTA upgrades, global connectivity, device and embedded apps management
Dimensions	75 x 60 x 32 mm, excluding connectors BL-G200: 82 x 60 x 32 mm including connectors
Weight	158 g
Environmental	
Operational temperature (Class B)	−30 °C to +75 °C
Humidity	95% relative humidity over a temperature range of +20 °C to +60 °C
Vibration and shock	Vibration spec: MIL-STD-810G, Method 514.6C, Category 4CWV (composite wheeled vehicle) Mechanical shock spec: MIL-STD-810G, Method 516.6 Procedure I (functional shock)
ESD	8 kV contact discharge, 15 kV air discharge
Hazardous locations	Class I, Division 2, Zone 2

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