

4G rugged gateway – edge

CONNECTIVITY WITH INTERNAL OR EXTERNAL ANTENNA



The 4G rugged gateway is part of the connectivity portfolio. It is an outdoor LoRa gateway equipped with an internal antenna and a 4G worldwide module with 3G/2G fallback. It is suitable for a wide variety of projects: construction areas, tailings dams, open pits, bridges, railways, roadways, soil consolidation projects and others.

FEATURES

- ▶ External waterproof connectors (RJ45, SIM card) eliminating the need to open the casing during installation.
- ▶ Easy installation mounting kit.
- ▶ Integrated internal antenna for GPS, 4G and LoRa (peak gain=2,6 dBi), external LoRa antenna 3dBi or 6dBi available as options.
- ▶ USB (type C) connector for local access.
- ▶ Faster processor (operating in a single-gateway architecture, it can manage up to 50 data messages per minute).*
- ▶ Compatible with Trimble 4D Control software for analysis and visualization.

*Contact us if your monitoring plan requires more than 8 messages per minute.

CONNECTIVITY

- ▶ ISM Sub 1 GHz band, sensitivity: down to -137 dBm (SF11).
- ▶ Integrated internal antennas GPS, 4G, LoRa (peak gain=2,6dBi).
- ▶ DDRAM 256MB, 8GB eMMC (6GB available for user).
- ▶ GNSS receiver (GPS, GLONASS, QZSS & SBAS).

POWER

- ▶ Powered by:
 - PoE both mode A and mode B (802.3af specifications).
 - \pm 48VDC through RJ45 (isolated power).
- ▶ Mean power consumption: 4.5 watts.
- ▶ PoE injector for indoor use included in the kit.

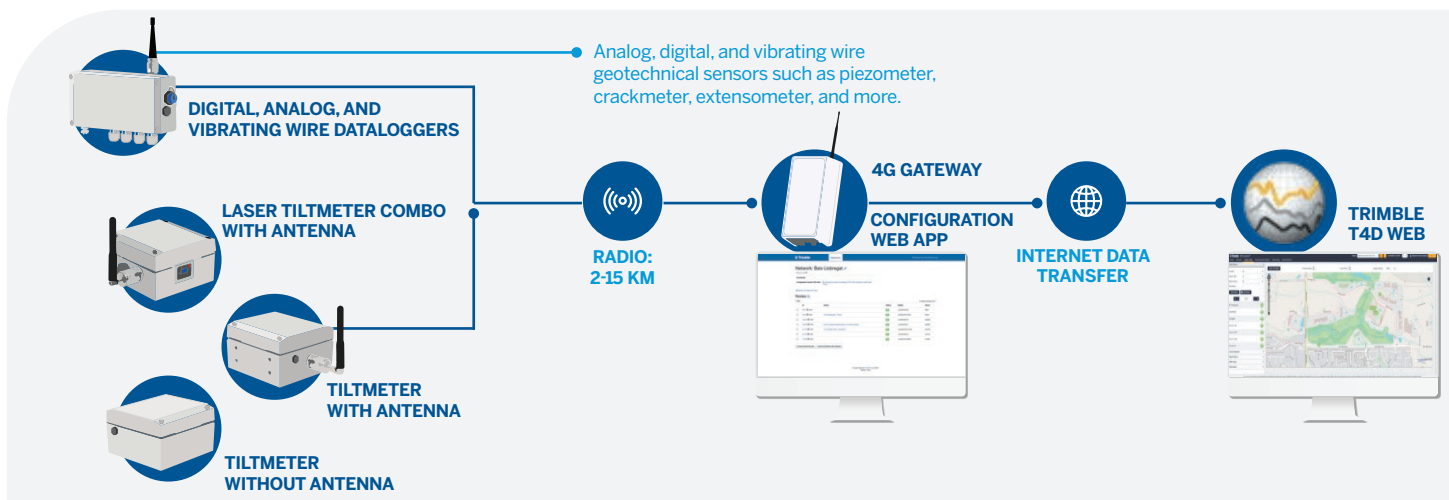
MECHANICAL

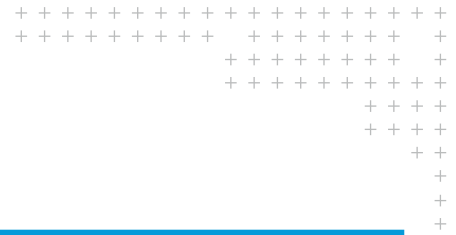
- ▶ Size: 265 x 165 x 100 mm (without external LoRa antenna).
- ▶ Weight: 1.4 kg (including mounting kit).
- ▶ IP67 aluminum (back), polycarbonate (front), Inox (mounting kit).
- ▶ Operating range: -40 °C to +60 °C.
- ▶ Two LEDs: 1 x green LED for power, 1 x red LED for system status.
- ▶ SIM card slot (mini-SIM format).

NETWORK INTERFACES

- ▶ 10/100 Ethernet WAN (RJ45 PoE).
- ▶ Integrated 4G modem & antenna with worldwide LTE, UMTS/HSPA+ and GSM/GPRS/EDGE coverage.

IoT-based Geotechnical Monitoring SYSTEM INSTALLATION





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WITH INTERNAL ANTENNA

WWAN Capabilities		
Technologies	Band	Data rate
LTE	Band 1 (2100)	LTE FDD: - Max 150Mbps (DL) - Max 50Mbps (UL)
	Band 2 (1900 PCS)	
	Band 3 (1800+)	
	Band 4 (1700/2100 AWS-1)	
	Band 5 (850)	LTE TDD: - Max 130Mbps (DL) - Max 35Mbps (UL)
	Band 7 (2600)	
	Band 8 (900)	
	Band 12 (700 ac)	
	Band 13 (700 c)	
	Band 18 (800 lower)	
	Band 19 (800 upper)	
	Band 20 (800 DD)	
	Band 25 (1900+)	
	Band 26 (850+)	
	Band 28 (700 APT)	
	Band 38 (TD 2600)	
	Band 39 (TD 1900+)	
	Band 40 (TD 2300)	
	Band 41 (TD 2600+)	
	WCDMA	
Band 2 (1900 PCS)		HSUPA: Max 5.7Mbps (UL)
Band 4 (1700/2100 AWS-1)		
Band 5 (850)		
Band 6 (850 Japan)		
Band 8 (900)		
Band 19 (800 upper)		
GSM	B2 (1900 PCS)	EDGE: - Max 296Mbps (DL)
	B3 (1800 dcs)	- Max 236.8Mbps (UL)
	B5 (850)	GPRS: - Max 107Mbps (DL)
	B8 (900)	- Max 85.6Mbps (UL)

4G GATEWAY

Product ordering references:

LS-G6-KIO-GW-868-MON	RX: 863- 873 MHz, TX: 863-873 MHz For Europe, Middle East, and Africa region.
LS-G6-KIO-GW-915-MON	RX: 902-915 MHz, TX: 922-928 MHz For Asia Pacific and Latin America Region.
LS-G6-KIO-GW-923-MON	RX: 915-928 MHz, TX: 915-928MHz For North America region.

ACCESSORIES - External Antenna

LS-ACC-SUPGW-01-MON	Optional vertical omni-directional outdoor antenna kit, 3 dBi, 868 MHz, 30 cm length.
LS-ACC-SUPGW-03-MON	Optional vertical omni-directional outdoor antenna kit, 3 dBi, 915/923 MHz, 30 cm length.
LS-ACC-SUPGW-02-MON	Optional vertical omni-directional outdoor antenna kit, 6dBi, 915/923 MHz, 110 cm length.

POWER SUPPLY

Dual Input 12 V 8 A Solar Charge Controller with 48 V PoE.

Note: Specifications are subject to review and change without notice.



Contact your local Authorized Trimble Distribution Partner for more information

NORTH AMERICA
Trimble Inc.
10368 Westmoor Drive
Westminster CO 80021
USA

EUROPE
Trimble Germany GmbH
Am Prime Parc 11
65479 Raunheim
GERMANY

ASIA-PACIFIC
Trimble Navigation
Singapore PTE Limited
3 HarbourFront Place
#13-02 HarbourFront Tower Two
Singapore 099254
SINGAPORE