

4G rugged gateway - edge

with internal antenna



The Loadsensing 4G rugged gateway is part of the Loadsensing 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=2,6dBi), so no external antenna installation required (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 the Loadsensing software embedded in the gateway

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).
- +/- 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' to 60'C.

Two LEDs: 1x green LED for power, 1x red LED for system status.

SIM card (mini-SIM format).

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

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





NETWORK INTERFACES

10/100 Ethernet WAN (RJ45 PoE).

Integrated 4G modem & antenna with worldwide LTE, UMTS/HSPA+ and GSM/GPRS/EDGE coverage.

WWAN Capabilities

Technologies	Band	Data rate
LTE	Band 1 (2100) Band 2 (1900 PCS) Band 3 (1800+) Band 4 (1700/2100 AWS-1) Band 5 (850) 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 38 (TD 2600) Band 39 (TD 1900+) Band 40 (TD 2300) Band 41 (TD 2600+	LTE FDD: - Max 150Mbps (DL) - Max 50Mbps (UL) LTE TDD: - Max 130Mbps (DL) - Max 35Mbps (UL)
WCDMA	Band 1 (2100) Band 2 (1900 PCS) Band 4 (1700/2100 AWS-1) Band 5 (850) Band 6 (850 Japan) Band 8 (900) Band 19 (800 upper)	DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.7Mbps (UL) WCDMA: - Max 384Mbps (DL) - Max 384Mbps (UL)
GSM	B2 (1900 PCS) B3 (1800 dcs) B5 (850) B8 (900)	EDGE: - Max 296Mbps (DL) - Max 236.8Mbps (UL) GPRS: - Max 107Mbps (DL) - Max 85.6Mbps (UL)

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4G gateway with the Loadsensing software - edge embedded Product ordering references:		
LS-G6-KIO GW-868	RX: 863-873MHz, TX: 863-873MHz (according to device capabilities).	
LS-G6-KIO GW-915	RX: 902-915MHz, TX: 922-928MHz (according to device capabilities).	
LS-G6-KIO GW-923	RX: 915-928 MHz, TX: 915-928MHz (according to device capabilities).	

ACCESSORIES

External antenna		
LS-ACC-SUPGW-01	Optional vertical omni-directional outdoor antenna kit, 3 dBi, 868 MHz, 30 cm length.	
LS-ACC-SUPGW-03	Optional vertical omni-directional outdoor antenna kit, 3 dBi, 915/923 MHz, 30 cm length.	
LS-ACC-SUPGW-02	Optional vertical omni-directional outdoor antenna kit, 6dBi, 915/923 MHz, 110 cm length.	
Surge protection		
LS-ACC-LPANT-2	Loadsensing gateway lightning antenna protection Coaxial surge protector.	
LS-ACC-LPETH	Loadsensing gateway lightning Ethernet protection PoE surge protector.	
Power supply		
Dual Input 12V 8A Solar Charge Controller with 48V PoE.		









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