



IG15 Industrial Gateway

Datasheet



OVERVIEW

The IG15 Industrial Gateway is ideal for monitoring industrial equipment including generators, construction equipment, environmental equipment, portable air compressors, and leasable pumps, tanks, lifts, and more. It features real-time GPS, LTE cellular connectivity with pre-provisioned service, and a waterproof and ruggedized enclosure (IP69K).

The IG15 is a part of Samsara's complete platform that enables you to improve efficiency, streamline reporting and maintenance, and reduce asset downtime. Easily create custom dashboards and alerts to track important KPIs, trend historical data, and generate reports in just a few clicks.

HIGHLIGHTS

Cellular Connectivity	4G LTE cellular connectivity, with 3G fallback where LTE coverage is unavailable.
	Pre-provisioned service means no additional costs or management of service plans
Ruggedized Enclosure	Ruggedized and waterproof enclosure (IP69K)
Cloud Dashboards	Real-time data is logged in the Samsara Industrial dashboards and securely stored for historical trending and analysis.

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ENCLOSURE

Materials	Gateway: UV-stabilized polycarbonate Mounting plate: Powder-coated and corrosion-resistant stainless steel
Dimensions	125 × 155 × 55.3 mm (4.1 × 6.0 × 2.2 inches)
Weight	700 g
Mounting	Stainless steel powder coated mounting bracket

ENVIRONMENTAL

Operating Temperature	-20° to 70°C While battery is charging: 0° to 50°C
Ingress protection	IP69K (Powerful high-temperature water jets)

POWER

External Power Requirement	12-30 VDC
Low Power Consumption	200 uW (sleep)
Max Power Consumption	10 W
Internal Lithium-Ion Battery	• 12.5 Ah capacity • Lifespan: From 1 year (2 check-ins/day, no accessory sensors) to 4 months (12 check-ins per day, with accessory sensors) • Actual battery life may be affected by extreme cold or cellular signal strength.

SHOCK AND VIBRATION

Operating Shock	MIL-STD-810G 514.6 C-1 reference
Operating Vibration	IEC 60068-2-6 & IEC 60068-2-64

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GPS

GPS	Advanced positioning system simultaneously reads from multiple independent satellite systems including GPS and GLONASS global navigation satellite systems.
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Antenna Connection	1x SMA - Female <i>External Antenna Required</i>
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CELLULAR

3G Frequencies	WCDMA dual-band: B2/B5
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4G Frequencies	LTE quad-band: B2/4/5/12
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Antenna connection	1x SMA - Female <i>External Antenna Required</i>
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Maximum Baud Rate	500 Kbps
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Minimum Baud Rate	250 Kbps
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LICENSE

License	Requires IG license. License includes industrial cloud software, ongoing firmware updates, maintenance, and support
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ACCESORIES

LTE & GPS Array Antenna	Provides both Cellular LTE connectivity and GPS. Contact your Samsara representative for additional details.
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FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps

CAN ICES-3 (B)/NMB-3(B)