



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	IP67 (weatherproof and water resistant up to 1m submerged) IP69k (highest grade resistance to high pressure and high temperature washdown)

POWER

External Power Requirement	12-30 VDC, supplied by an approved DC power source not exceeding 25W
Low Power Consumption	200 uW (sleep)
Max Power Consumption	18 W
Internal Lithium-Ion Battery	<ul style="list-style-type: none">• 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.

Antenna Connection 1x SMA - Female
External Antenna Required

CELLULAR

3G Frequencies WCDMA dual-band: B2/B5

4G Frequencies LTE quad-band: B2/4/5/12

Antenna connection 1x SMA - Female
External Antenna Required

CAN

Maximum Baud Rate 500 Kbps

Minimum Baud Rate 250 Kbps

LICENSE

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

ACCESSORIES

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.

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IC REGULATIONS

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie 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, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with Innovation, Science and Economic Development Canada RF exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated to ensure a minimum of 20 cm spacing to any person at all times.

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

IC Radiation Exposure Statement:

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

IC Déclaration d'exposition aux radiations:

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps.

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IMPORTANT NOTE

The manufacturer and model number of the IG15 14-pin connector is SINGATRON 2CM3002-W14300H.

All sealing devices/connections including cable glands, blanking elements, thread adapters, stopping plugs and connectors shall maintain a minimum degree of protection of IP-67.

Tous les dispositifs d'étanchéité et/ou de scellage, y compris les presse-étoupes, les éléments d'obturation, les adaptateurs de filetage, et les bouchons et connecteurs d'arrêt, doivent respecter un degré minimum de protection IP-67.