

# Asset IoT Gateway

## AG26 Datasheet



### OVERVIEW

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The AG26 Asset IoT Gateway is ideal for monitoring dry-van and refrigerated trailers, heavy equipment, and high-value mobile assets. It features a waterproof and ruggedized enclosure, a variety of wireless sensor accessories, and a robust backup battery.

The AG26 enables improved operating efficiency, asset theft recovery, and streamlined regulatory compliance. It is part of Samsara's complete sensor system that combines asset tracking, fleet management, safety, and compliance solutions in a single platform.

### PRODUCT HIGHLIGHTS

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- A flexible solution for semi-trailers (including reefers), heavy equipment, and mobile assets
- Real-time GPS location, tire monitoring, and sensor data with live updates
- Two-way reefer control
- Engine diagnostics data
- High-capacity lithium-ion battery for unpowered applications
- Ruggedized, weatherproof enclosure with flexible data inputs
- Easy-to-use wireless accessory sensors

## DESIGNED FOR RAPID RETURN ON INVESTMENT

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- Monitor and increase asset utilization
- Optimize asset pool inventory and location
- Recover lost or stolen assets
- Evaluate powered equipment engine health
- Reduce inventory management and yard-walk time
- Lower temperature-related loss claims
- Increase tire life, fuel efficiency, and streamline tire maintenance
- Simplify regulatory compliance

## TYPICAL APPLICATIONS

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	<b>Trailers</b>	<b>Refrigerated Assets</b>	<b>Powered Assets</b>
<b>Asset Type</b>	<ul style="list-style-type: none"><li>• Dry van trailers</li><li>• Specialty trailers for liquid and chemical transport</li><li>• Agriculture trailers</li></ul>	<ul style="list-style-type: none"><li>• Reefer trailers</li></ul>	<ul style="list-style-type: none"><li>• Construction equipment (backhoes, bulldozers, cranes, etc.)</li><li>• Forklifts</li></ul>

# Technical Specifications

## CELLULAR DATA CONNECTIVITY

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Cellular Data	4G LTE cellular connectivity LTE: quad band 2/4/5/12. 3G: dual band 2/5. Operating area: United States, Canada, Mexico, United Kingdom, European Union
Offline Storage	Built-in flash memory logs data when Internet connectivity is unavailable.
Secure Communications	All Internet connectivity secured via SSL with 256-bit AES encryption (military-grade).

## LOCATION TRACKING

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GPS	Advanced positioning system simultaneously reads from multiple independent satellite systems including GPS and GLONASS global navigation satellite systems. Internal antenna for discreet installation. Industry leading -162 dBm sensitivity with 1 second time-to-fix (hot start).
Real-time tracking	Powered deployments feature real-time location updates (up-to-the-second, with live map view)

## POWER \* Typical battery lifetimes provided. Actual battery life is affected by extreme cold, cellular signal strength, and accessory sensor utilization

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Sources	Designed for use with external power, intermittent external power, or self-powered applications (via internal lithium-ion battery)
External Power	12-30V DC Power draw: 200 uW (sleep) to 1300 mW (peak)
Lithium-Ion Battery	12.5 Ah internal battery capacity Lasts about 12 months (2 check-ins/day) when fully charged. See Deployment Configurations section of this datasheet for application-specific battery life. For questions about the safe use of lithium battery powered devices, please consult your company's safety department.
Charging	Average unit will require 12 hours of charge for full battery charge

# Technical Specifications (cont'd)

## ENCLOSURE

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Material	Gateway: UV-stabilized polycarbonate Mounting plate: Powder-coated and corrosion- resistant stainless steel
Dimensions	155 × 125 × 55.3mm (6.1 × 4.9 × 2.2 in)
Weight	662 g
Operating temperature	Operation: -40° to 85°C Battery charge: 0° to 50°C
IP rating	IP67 (weatherproof and water resistant up to 1m submerged) IP69k (highest grade resistance to high pressure and high temperature washdown)

## DATA INTERFACES

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Interfaces	CAN Bus (500kbps, 250 kbps) Maximum voltage 30V, Vil 3.3V, Vih 7V
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## SAFETY, HAZARDOUS LOCATIONS, & COMPLIANCE

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Hazardous locations	US (UL) - Class I, Division 2, Groups A, B, C, D, Temperature Class T4
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## SAMSARA CLOUD SOFTWARE FEATURES

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Software Features	Map-based location tracking with live updates Real-time alerts (SMS, email) Operational reports: Utilization, inventory, dormancy, detention, billing, equipment, trip history, and time on site FSMA-compliant temperature reports Reefer monitoring and control interface Developer APIs
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# Deployment Configurations

<b>Power Cable</b>	<b>7-way trailer cable harness</b>	<b>Refrigerated trailer cable harness</b>	<b>Powered asset cable harnesses</b>
<b>Check-in Rate</b>	Powered: Live Unpowered: Every 12 hours Sensors: Every 2 hours Unpowered check-in rate is user configurable	Powered: Live Unpowered: Every 12 hours Unpowered check-in rate is user configurable Reefer: Live control Sensors: Live when powered, every 12 hours when unpowered	Powered: Live Unpowered: Every 12 hours Unpowered check-in rate is user configurable
<b>Battery Life</b>	12 months (2 check-ins a day) on full charge	12 months (2 check-ins a day) on full charge	12 months (2 check-ins a day) on full charge

# Cables & Accessories

## **CABLES** (one per gateway required)

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CBL-AG-A7WY	Dry-van trailer cable harness for AG26 with 7-way power connection
CBL-AG-ARTK	Refrigerated trailer cable harness for AG26 with two-way Thermo King reefer control
CBL-AG-ARCR-VT	Refrigerated trailer cable harness for AG26 with two-way Carrier reefer control (for Vector 8xxx models)
CBL-AG-ARCR-X4	Refrigerated trailer cable harness for AG26 with two-way Carrier reefer control (for X4 models excluding 2019 and 2020 models)
CBL-AG-ATPM	Tire pressure monitoring cable for PressurePro Gateway to the AG26
CBL-AG-AEDP	European dry-van trailer standard cable harness for AG26
CBL-AG-AEPC	European dry-van trailer Y-cable harness for AG26 with 7-way power connection
CBL-AG-APWR	Powered asset cable harness for AG26 with power and aux inputs (for engine hours)
CBL-AG-AOPEN	Powered asset cable harness for AG26 with power and CAN hi and CAN lo wiring (for engine diagnostics and diagnostic trouble codes)
CBL-AG-A9PIN	Powered asset cable harness for AG26 with J1939 standard CAN-enabled 9-pin connector (for engine diagnostics and diagnostic trouble codes)
CBL-AG-ACT9	Powered asset cable harness for AG26 with CATERPILLAR standard CAN-enabled 9-pin connector (for engine diagnostics and diagnostic trouble codes)

## **ACCESSORIES**

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DM11	Wireless door sensor for swing and roll-up doors
CARGO	Wireless cargo sensor
EM21	Wireless environmental monitor with temperature and humidity sensors (requires license)
EM22	Wireless environmental monitor with external food- grade temperature probe

# Regulations

## IC REGULATIONS

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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.

# Regulations (cont'd)

## **FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT**

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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.

### **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.