



samsara

# AG53 Powered Asset Gateway

[AG53-EU DATASHEET](#)



## OVERVIEW

The AG53 Powered Asset Gateway is ideal for monitoring dry-van 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 AG53 enables improved operating efficiency, asset theft recovery, and streamlined regulatory compliance. It is part of Samsara's Connected Operations Cloud, enabling you to capture data that helps you run your operations more efficiently, safely, and sustainably.

## SUPPORTED ASSET TYPES

- Dry-van trailers
- Chassis and flatbeds
- Speciality trailers (agriculture, liquid and chemical transport, etc.)
- Generators
- Light towers
- Construction equipment (backhoes, bulldozers, cranes, etc.)
- Forklifts

## HIGHLIGHTS

- A flexible solution for powered trailers and assets
- Real-time GPS location and sensor data
- High-capacity lithium-ion battery for backup application
- Ruggedized, weatherproof enclosure with flexible data inputs
- Easy-to-use wireless accessory sensors
- Certified for hazardous or flammable environments
- (C1D2) when used with special bracket (ACC-AG-BHZZ)

## DESIGNED FOR RAPID ROI

- Monitor and increase asset utilisation
- Optimise asset pool inventory and location
- Recover lost or stolen assets
- Reduce inventory management and yard-walk time
- Lower temperature-related loss claims
- Simplify regulatory compliance and minimise infractions

## Technical Specifications

### CELLULAR DATA CONNECTIVITY

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**Cellular Data:** LTE Cat M1 and NB-IOT

**Operating area:** UK, EU

**Offline Storage:** Built-in flash memory to store data when Internet connectivity is unavailable.

**Secure Communications:** All Internet connectivity secured via HTTPS with TLS encryption

### LOCATION TRACKING

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**Real-time tracking:** Multi-constellation GPS for high resolution, real-time geolocation with robust coverage in low signal environments and internal antenna for discreet installation.

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

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**Sources:** Designed for use with external power, intermittent external power, or battery backup applications (via internal lithium-ion battery)

**External Power:** 9-60V DC

**Power draw:** 200 uW (sleep) to 5,000 mW (peak); normal operation at 200 mW

**Lithium-Ion Battery:** 3 Ah internal battery capacity

Lasts over 12 months (two check-ins per day) when fully charged

For questions about the safe use of lithium-ion battery-powered devices, please consult your company's safety department

**Charging:** Average unit will require 10 hours of charge for full battery charge

## ENCLOSURE

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**Material:** UV-stabilised polycarbonate

**Dimensions:** 124 x 81 x 35 mm

**Weight:** 192 g

**Operating temperature** Operation: -40° to 60°C externally powered, -20° to 60°C discharging on battery, 0°C to 45°C charging

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

**Hazardous locations** Certified Class I Division 2 Group A-D T6 (C1D2) for hazardous locations when used with special bracket (ACC-AG-BHZB)

## SAMSARA CLOUD SOFTWARE FEATURES

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### Features:

Map-based location tracking & Helicopter View

Live Share

Geofence and real-time alerts (SMS, email)

Out-of-box reporting (utilisation, detention, dormancy, time-on-site, inventory, billing)

Developer APIs

# Technical Specifications (cont'd)

## CABLES (one per gateway required)

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**CBL-AG-BPWR:** Powered cable for trailer 7-way connection and powered equipment with 1 digital input

**CBL-AG-BRTK:** Thermo King cable for 1-way monitoring and 2-way temperature control

**CBL-AG-BEQP:** Enhanced powered equipment cable with 2 digital inputs

**CBL-AG-B12V:** AG52 12V power supply cable that connects to ACC-2A12-W1 wall wart cable

**CBL-AG-AEDP:** European cable harness, dry van power only

**CBL-AG-AECP:** European cable harness, dry van 7-way connector

## ACCESSORIES

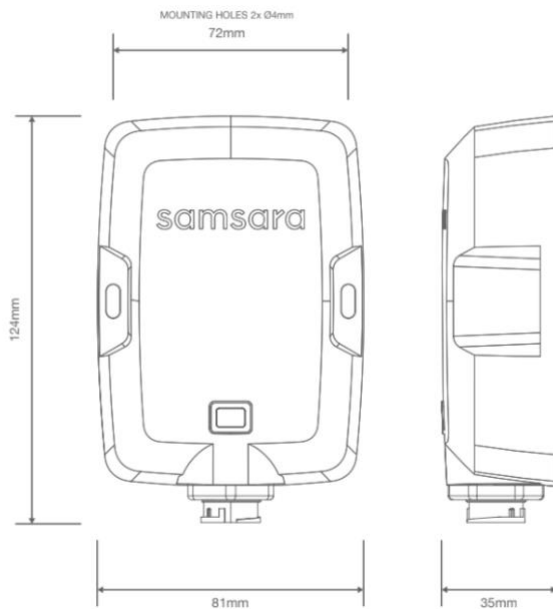
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**Door Monitor (DM11):** Monitor swing and roll-up trailer doors

**Cargo Monitor (CARGO):** Detect the absence or presence of cargo

**Environmental Monitor (EM31):** Monitor temperature in real-time (additional licence required)

**Environmental Probe (ACC-EM-P):** Detect additional temperature measurements (optional accessory with EM31)



## 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:

1. Reorient or relocate the receiving antenna
2. Increase the separation between the equipment and receiver
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
4. 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.