samsara

AG53 Powered Asset Gateway

FOR TRAILERS AND POWERED EQUIPMENT

AG53-EU DATASHEET

OVERVIEW

The Samsara AG53 Powered Asset Gateway is designed for tracking and monitoring trailers (dry vans, chassis, flatbeds, reefers, tankers, speciality trailers) and powered equipment (generators, compressors, pumps, forklifts, lifts). Featuring a rugged, waterproof enclosure, precise location tracking in low-coverage areas and discreet undercarriage installation, the AG53 enables improved operational efficiency, maintenance, troubleshooting, safety and compliance for fleet management.

SUPPORTED TRAILER TYPES

- Dry vans
- Chassis and flatbeds
- Thermo King reefers
- Tankers
- Speciality trailers (agriculture, liquid and chemical transport, etc.)

HIGHLIGHTS

- **Real-time location:** High-precision tracking from multiple satellite systems for real-time geolocation and robust signal in low-coverage areas

- **Remote diagnostics:** Monitors trailer and ABS fault codes and power connection.

- **Easy installation:** Rapid, discreet undercarriage installation for fast and efficient deployment

- **Operational efficiency data:** Maintenance, utilisation, time on site and detention insights for fleet right-sizing and accurate billing

- **Cargo and temperature monitoring:** Sensor connectivity for door, cargo and temperature monitoring

- **Reefer Integration:** One-way monitoring and two-way temperature control for reefers

- **Unified platform:** Unlocks a wide array of customisable reports, alerts and mobile apps for drivers and admins as part of Samsara's Connected Operations Platform

SUPPORTED EQUIPMENT

- Generators
- Compressors
- Pumps
- Lifts
- Boilers
- Chillers
- Construction equipment

DESIGNED FOR RAPID ROI

- Real-time tracking of trailers and equipment
- Streamlined troubleshooting and maintenance, maximising uptime
- Enhanced driver safety and compliance
- Improved utilisation, reduced fees and increased billing accuracy.
- Safeguarded cargo and prevention of spoilage
- Simplified deployment

Technical Specifications

CELLULAR DATA CONNECTIVITY

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

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

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

External Power: 9–60 V 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 charging for full battery charge

ENCLOSURE

Material: UV-stabilised polycarbonate

Dimensions: 124 x 81 x 35 mm

Weight: 192 g

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

IP Rating: IP67 (weatherproof and water resistant up to 1 m submerged) 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

Features:

Map-based location tracking & Helicopter View

Live Share

Geofence and real-time alerts (SMS, email)

Find My Asset and Wake On Motion on battery operating mode for US only (see Battery section for more details on impact to battery life)

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

Developer API

Technical Specifications (cont'd)

TRAILER CABLES (one per gateway required)

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

EQUIPMENT CABLES (one per gateway required)

CBL-AG-BEQP: CAN bus and two digital input supports for monitoring powered equipment

CBL-AG-B9PIN: Connect non-CAT-powered equipment over CAN bus to pull engine diagnostics

CBL-AG-BCT9: Connect Caterpillar-powered equipment with a 9-pin port over CAN bus plus two digital inputs

CBL-AG-BCT14: Connect Caterpillar-powered equipment with 14-pin port over CAN bus plus two digital inputs
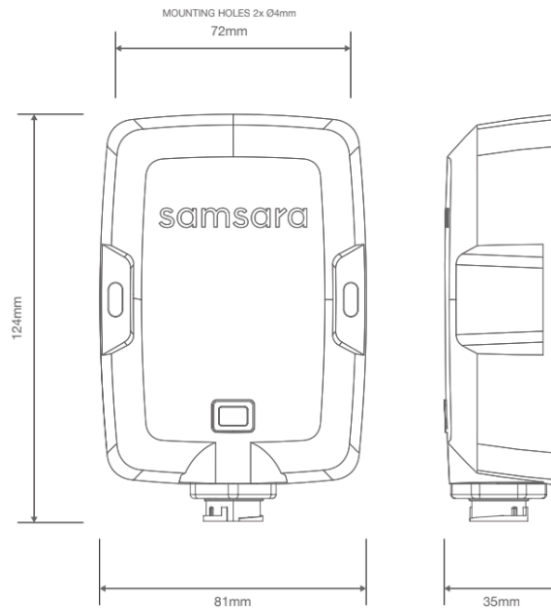
CBL-AG-B12V: Power AG from wall outlet plug

ACCESSORIES

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)

[IMAGE SPECS]

Regulations

IC REGULATIONS

NO CHANGES TO THIS SECTION – SEE [Datasheet](#) for original text