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, specialty 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
- Specialty 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, discrete undercarriage installation for fast and efficient deployment

- **Operational efficiency data:** Maintenance, utilization, 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:** 1-way monitoring and 2-way temperature control for reefers

- **Unified platform:** Unlocks a wide array of customizable 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, maximizing uptime
- Enhanced driver safety and compliance
- Improved utilization, 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 utilization}

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

Material: UV-stabilized 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) 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 on more details on impact to battery life)

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

Developer AP

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: CANbus and two digital input support for monitoring powered equipment

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

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

CBL-AG-BCT14: Connect Caterpillar powered equipment with 14 pin port over CANbus plus two digital inputs

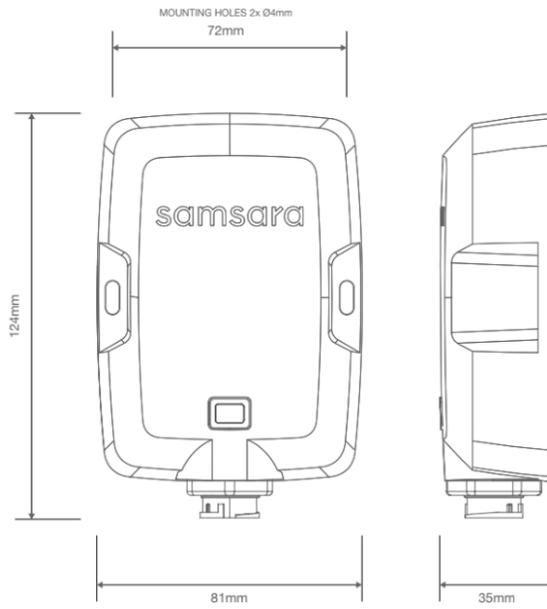**CBL-AG-B12V:** Power AG from wall outlet plug

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 license required)

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

[IMAGE SPECS]

Regulations

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NO CHANGES TO THIS SECTION – SEE Datasheet for original text