

REVOLUTIONIZING ALARM NOTIFICATIONS & REMOTE MONITORING



The **SigLog 32A2** is a state-of-the-art bidirectional IoT communication device designed for industrial automation, remote monitoring, asset tracking, and real-time data logging. Equipped with multi-network connectivity, including **2G (GPRS)**, **LTE Cat M1 (LTE-M)**, and **NB-IoT**, the SigLog 32A2 ensures seamless communication across various applications.

With advanced sensor integration, GNSS positioning, and secure cloud connectivity, the **SigLog 32A2** is the ultimate solution for industries requiring uninterrupted monitoring, secure data transmission, and scalable IoT connectivity.

KEY FEATURES & BENEFITS

- Multi-Network Connectivity – Supports **2G (GPRS)**, **LTE-M**, and **NB-IoT** for maximum coverage and flexibility.
- Cloud-Based Communication – Uses **MQTT protocol** for real-time.
- Advanced Data Logging – Stores **8,000 logs in non-volatile EEPROM memory**, ensuring data integrity.
- Dual Power Options – Supports **battery operation and external power supply**, making it ideal for remote installations.
- Built-in GNSS for Location Tracking –provides high-precision tracking and geo-fencing alerts.
- I/O Interfaces – Includes **digital inputs, analog inputs, and relay outputs** for industrial automation.
- Local USB & Remote Configuration – **Nano USB** for on-site diagnostics.
- Seamless Third-Party Integration.
- Low Power Consumption – Optimized for long-term field deployment with energy-efficient components.

TECHNICAL SPECIFICATIONS

1. COMMUNICATION & CONNECTIVITY

- Cellular Network: 2G (GPRS), LTE Cat M1 (LTE-M), NB-IoT
- Supported Bands: GSM 900, GSM 1800, LTE Bands 1, 3, 5, 8, 20, 28
- Communication Protocol: MQTT, SMS (Backup)
- SIM Card Type: Nano SIM (User-Replaceable)
- Antenna Interfaces: External SMA connectors for Cellular & GNSS

2. PROCESSING & DATA LOGGING

- Microcontroller Unit (MCU): High-performance embedded processor
- Storage Capacity: 8,000 event logs
- Data Retention: Non-volatile memory for power failure protection
- GNSS Positioning: MAX M10 for high-accuracy tracking
- Location Accuracy: $\leq 2.5\text{m}$ (Open Sky)

3. INPUTS & OUTPUTS (I/O)

- Digital Inputs: Configurable for event detection
- Analog Inputs: Supports sensor integration
- Relay Outputs: Remote control of external devices
- RS485 Interface: Industrial communication for automation systems

4. POWER & ENVIRONMENTAL

- Power Supply: External Power Support
- Power Consumption: Optimized for low-power applications
- Operating Temperature: -20°C to 70°C

SYSTEM ARCHITECTURE & CONNECTIVITY

HOW SIGLOG 32A2 WORKS

1. Captures data from sensors and inputs logging data.
2. Processes and stores data locally in **non-volatile EEPROM memory** for security and reliability.
3. Transmits data via **2G, LTE-M, or NB-IoT**, depending on network availability.
4. Communicates with an **MQTT Broker**, enabling real-time data exchange with cloud platforms.
5. Enables remote monitoring and alerts, notifying users via **WhatsApp, Email, or SMS**.
6. Integrates with external **dashboards and analytics platforms** such as **SigWeb, and other IoT systems**

DAVRON REMOTE MONITORING (DRM) INTEGRATION

- Fire Protection Monitoring – Ensures fire pumps, fuel levels, and tanks are operational.
- Preventative Maintenance – Tracks system availability and potential failures.
- Local Logging – for service validation.
- Remote Troubleshooting – Enables faster problem resolution without an on-site visit.

DEPLOYMENT & APPLICATIONS

INDUSTRIES & USE CASES

- Industrial IoT & SCADA Systems – Remotely monitor and control industrial automation.
- Fleet & Asset Tracking – GPS tracking with remote monitoring of operational status.
- Smart Agriculture – Monitor soil conditions, irrigation pumps, and water levels.
- Fire Protection Systems – Ensure fire pumps, valves, and tanks are operational.
- Remote Infrastructure Monitoring – Track water tanks, streetlights and more

WHY CHOOSE SIG LOG 32A2?

- Reliable & Scalable IoT Solution – Built for **real-time monitoring and industrial applications.**
- Low-Power, Battery-Friendly – Optimized for **long-term remote deployments.**
- Future-Proof Connectivity – Supports **2G, LTE-M, and NB-IoT networks** for flexible communication.
- Seamless Cloud & Dashboard Integration – Works with **SigWeb and MQTT platforms.**
- WhatsApp-Based Alerts – Cost-effective **real-time notifications** for mission-critical events.

Stay connected. Stay informed. Stay protected.

For more details, visit our website or contact Davron today.

www.davron.co.za

**Branch – Cape Town**

Address: 10 Bisset Street, Windsor Park,
Kraaifontein, 7570

Sales

Email: francois@davron.co.za
Tel: +27 72 463 3242

Installation

Email: henri@davron.co.za
Tel: +27 76 380 6007

Headquarters – Johannesburg

Address: 128 Loper Street, Aeroport, Gauteng, 1620
Tel: +27 11 974 3770
Email: sales@davron.co.za

Service & Maintenance

Address: 132A Loper Street, Aeroport, Gauteng
Tel: +27 10 591 3531
Email: service@davron.co.za

Branch – Durban

Address: 99 Chris Hani Road,
Briardene, Durban North 4051

Sales

Email: ryan@davron.co.za
Tel: +27 73 398 9543

Installation

Email: sam@davron.co.za
Tel: +27 73 347 6675