ORBCOMM®

WHERE DATA DRIVES DECISIONS

Modbus app loaded on ST device and installed on asset

Modbus app

Transform your ORBCOMM terminal into a low-cost SCADA-ready master for remote monitoring and control.

ORBCOMM© terminal apps provide additional functionality and data efficiency without requiring custom programming so IoT solution developers can build better products faster. We offer a wide range of terminal apps across multiple industries, backed by free software updates and our industry-leading technical support, to help reduce development costs, quicken time to market and unlock new industrial IoT capabilities.

Commonly used in oil and gas, mining, utilities and maritime IoT applications, our Modbus app helps solution providers reduce operational costs and downtime by enabling seamless remote monitoring and control of Modbus-compatible equipment. It can do this by either interfacing the remote equipment with a backend SCADA controller or by collecting, decoding and converting field data from the equipment to a backend system.

The Modbus app works with legacy and modern Modbus devices and can interface directly with Modbus devices like Modbus controllers (PLCs and RTUs, for example), smart controllers (such as valve actuators) and remote sensors when combined with other ORBCOMM terminals apps like Sensors or Alert Report Control. Plus, it can provide edge processing, alerts and analytics capabilities to help simplify solution development.

Reduces operational costs and downtime

Enhances functionality with edge processing, alerts and analytics capabilities

Works with ORBCOMM's IP SCADA service for direct TCP/IP configuration

Supports over-the-air and local configuration

Configurations

- Supports Modbus RTU and ASCII protocols
- Physical interfaces: RS-232, RS-485
- Compatible withORBCOMM's IP SCADA service for direct TCP/IP connection
- Supports over-the-air or local configuration

Modbus object and range management

- Periodically report raw and decoded Modbus data over satellite or cellular networks
- Periodically report up to 32 Modbus objects (e.g. coils, registers and inputs/outputs) and 16 address ranges
- Remotely read and write on Modbus devices on demand
- Define polling intervals, address scopes and decoding formats
- Convert raw data into readable formats using coefficients/offsets

- Configure reports with both raw and converted values depending on user preferences
- Support automation via adjacent apps (Sensors or Alert Report Control, for example)
- Support data conversion to engineering units (°C to °F, for example)

Edge analytics and integration

- Data mapped to properties are usable by other terminal apps that can run on the same terminal
- Decoded values can trigger alerts or control actions for remote asset controlling
- Compatible with ORBCOMM's Alert Report Control app for actuator control
- Compatible with ORBCOMM's Sensors app for edge analytics and alert generation
- Lua scripting support via the developer toolkit

Although we strive to ensure accuracy in all of our published specifications, actual field performance can vary depending on a variety of environmental, installation and usage factors, as well as third-party factors such as cellular providers. The specifications listed are approximations, and do not constitute binding statements or modify the terms and conditions of purchase or lease including, but not limited to, product operational limitations and warranties. All specifications are subject to change without notice. Please check www.orbcomm.com to ensure you have the latest version of these specifications.

Terminal apps are available by subscription. Subscription fees are charged monthly for each activated terminal. For more info, contact your ORBCOMM account manager or **sales@ORBCOMM.com**

Visit our website **www.ORBCOMM.com**

ORBCOMM is a pioneer in IoT technology, empowering customers with insight to make data-driven decisions that help them optimize their operations, maximize profitability and build a more sustainable future. With 30 years of experience and one of the most comprehensive solution portfolios in the industry, ORBCOMM enables the management of over a million assets worldwide for a diverse customer base spanning transportation, supply chain, heavy equipment, maritime, natural resources and government. For more information about how ORBCOMM is driving the evolution of industry through the power of data, visit www.orbcomm.com.

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