



Remote Terminal Device app

Create a data pipe between your serial field device and backend application.

ORBCOMM® terminal apps provide additional functionality without requiring custom code so IoT solution developers can build better products faster. We offer a wide range of terminal apps across multiple industries to help reduce technical requirements and unlock new industrial IoT capabilities.

Our Remote Terminal Device (RTD) app enables an ORBCOMM terminal to act as a plug-and-play data bridge between a device and a backend application. This can help simplify remote device integration, reduce network usage and connectivity costs, improve remote asset management and more. The RTD app works as a standalone application or can be combined with ORBCOMM's IP SCADA service to provide field devices with a direct TCP/IP connection without data-hungry overhead costs.

The RTD app can be used in industries like oil and gas and utilities to help enable:

- Simplified remote device integration with no custom code required
- Seamless connection between remote terminal units and SCADA systems
- Transparent data passthrough for field devices using RS-232/485 ports
- Remote field asset control and diagnostic capabilities

Simplified remote device integration

Reduced network usage

Seamless connection between remote terminal units and SCADA systems

Serial-to-IP data transport via satellite or cellular

When used in combination with ORBCOMM's IP SCADA service, the RTD app can be used to:

- Reduce network usage with no TCP/IP overhead
- Enable serial-to-IP data transport via satellite or cellular connectivity
- Map remote serial devices to TCP/IP over VPN connections
- Support up to 3 simultaneous VPN tunnels

The RTD app is compatible with legacy and modern devices, supports both cellular and satellite deployments, receives free upgrades and is backed by ORBCOMM's industry-leading technical support.

Configurations

- Serial communication via RS-232 or RS-485 ports
- The RTD app and satellite terminal, when used with ORBCOMM's IP SCADA service, act as a virtual serial port mapped to a TCP/IP address, eliminating the need for serial protocol knowledge
- Two-way communication to enable remote controlling of assets deployed in the field

User-defined modules (UDMs)

- The RTD app supports four UDM channels. This turns the satellite terminal into an advanced RTU, enabling users to process data from serial and non-serial data streams including terminal I/Os and serial ports
- Lua code interface enables advanced handling of remote commands (e.g. event triggers, flow control)

Serial data communication

- Enables remote polling or unsolicited data reporting (cry-out)
- Maps serial ports to TCP/IP addresses for SCADA master integration when used with ORBCOMM's IP SCADA service
- Automatically detects and manages device connection states
- Helps ensure data integrity over constrained links with buffers and queues

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 global leader in industrial IoT, delivering visibility, intelligence and efficiency to the world's most critical operations. With 30 years of innovation and more than 2.4 million connected devices, we transform data into actionable insights, driving greater efficiency, safety, resilience and sustainability. Serving customers that include the world's largest shipping lines, over-the-road trucking fleets, cold-chain transportation fleets and a global network of IoT solution provider partners, ORBCOMM is where IoT powers asset intelligence.