

# SKYWAVE™

AN ORBCOMM COMPANY

## Datasheet



## Remote Terminal Device app

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

SKYWAVE® 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 SKYWAVE 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 SKYWAVE'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 SKYWAVE'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 SKYWAVE's industry-leading technical support.

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## Configurations

- Serial communication via RS-232 or RS-485 ports
- The RTD app and satellite terminal, when used with SKYWAVE'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 SKYWAVE'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.skywave.com](http://www.skywave.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 **SKYWAVE** account manager or [sales@skywave.com](mailto:sales@skywave.com) | Call: **1-800-672-2666**

Visit our website [www.skywave.com](http://www.skywave.com)

SKYWAVE, an ORBCOMM company, is a global provider of IoT solution enablement technology. We empower solution providers, system integrators and OEMs to serve their customers through satellite and cellular managed IoT networks and a complete application enablement platform. We provide a fully integrated ecosystem of purpose-built devices, data automation and connectivity services for high-reliability, low-data solutions. SKYWAVE is where IoT powers mission-critical applications for the transportation, agriculture, oil and gas and maritime industries.