



IP SCADA service

Enable secure, transparent, IP-based communication with remote serial field devices over satellite

Designed for virtually any protocol, ORBCOMM's IP SCADA service simplifies SCADA integration with existing infrastructure by making our terminals appear as virtual IP devices. Optimized for scheduled and event-based communications, it enables secure, transparent TCP/IP communication between centralized SCADA systems and remote serial-based PLCs and RTUs over our satellite networks.

The IP SCADA service reduces the complexity and cost associated with traditional satellite polling methods. Plus, it eliminates custom middleware with native Modbus-over-TCP support and is backed by our satellite networks' secure gateways and support infrastructure. When integrated with ORBCOMM's RTD app, the IP SCADA service enables user-defined module (UDM) channels, which support data processing from serial and non-serial data streams including terminal I/Os, serial ports and other services via TCP port mapping.

Virtual IP access to remote equipment over satellite

Transparent bridging of serial data (RS-232 or RS-485) to TCP/IP

Enables host-initiated and unsolicited communications

Supports three simultaneous VPN client sessions

Works with ORBCOMM's Modbus and RTD apps

Configurations

- Requires the RTD app to be installed on the ORBCOMM terminal
- Supported data sources:
 - RS-232 Serial Port
 - RS-485 Serial Port (via UDM)
 - Lua user-defined modules (UDM 1–4)
 - Accessed via dedicated TCP ports (e.g., 23129–23134 or 28129–28134)

Supported communication modes

- Polling: Host-initiated requests
- Cry-out: Terminal-initiated push
- Ping tools: Conventional and out-of-band ping supported for diagnostics

Performance and reliability considerations

- Message buffering, retries and expiration managed via RTD app
- Default message lifetime: 60 minutes (recommended: 15 min for low-latency apps)
- Supports hardware/software RS-232 flow control

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.

ORBCOMM's IP SCADA service is available by subscription. Subscription fees are charged monthly for each activated terminal. For more information, 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.