TBOX
AN OVARRO TECHNOLOGY

TBOX TG2

Designed for digital gateway solutions

The TBox TG2 from Ovarro is designed to provide an Internet-ready telecontrol gateway, and to control remote systems not directly connected to the central controller. Like the word telecontrol itself — where tele derives from remote, and control means to entrust order — the TBox TG2 can ensure safe, secure and reliable wireless automation and monitoring of fixed or mobile assets.

The self-contained system gives you everything you need to create high-performance yet economical automation and monitoring installations. It has been engineered to deliver accurate monitoring and control for demanding applications.

FEATURES & BENEFITS AT A GLANCE:

The TBox TG2 combines the logic and control capability of an RTU and the ultra-low-power operation of a wireless logger. This removes the necessity for multiple devices for one application.

Smart data logging
- Special routines, configurable within the TBox TG2, only log the necessary events with their appropriate time stamps

- Reports in CSV, text or XML formats are quickly configured using Ovarro's Report Studio and are readily available via email attached files and FTP

Alarm management
- Eliminate wasted site visits, improving productivity and response time

- The TBox TG2 smart alarm functionality enables the TBox TG2 to send multimedia messaging, utilising recipient groups, escalation rules and shift management

- Without waiting for a poll, the TBox TG2 initiates messages via email, FTP, and SMS to immediately notify users of alarms and the live condition of their remote assets

- Recipients can then acknowledge alarms and initiate logic operations from their smartphones or tablet devices

Cyber-secure platform
- All TBox devices and connected assets are protected by a state-of-the-art cybersecurity suite with authentication, encryption, firewall, SSL/TLS, HTTPS, SMTPS SFTP/FTPS and VPN

Expandable and IoT team ready
- Expandable with the RM2 and has the full functionality of TBox LT2

- IoT team ready via the ADK (C++ add ons), the TG2 is also Azure and AWS compatible

Communications configurations
The TBox TG2 has five communication ports including:

- Serial RS-232 for local configuration and programming

- Serial RS-485 for field device networking

- Ethernet

- USB

- LTE /4G modem

CASE STUDY — QUICKER IDENTIFICATION OF LEAKS

La CILE, Compagnie Intercommunale Liégeoise des Eaux, is one Belgium's largest water distribution systems. Over 500 water pump stations, water reservoirs and underground water resources cover more than 3,000 kilometres. Since the 1930s, the company has continuously upgraded the measurement technology used in its supervision and control network.

This time, La CILE wanted to implement automatic remote measurement and control of its entire network, and identify water leaks more quickly. After careful review, it chose Ovarro's TBox technology and can now control hundreds of stations connected through a modem to a central computer. La CILE gains daily and real-time information about its network and automatic invoicing using real consumption data and can quickly discover and remediate leaks — all thanks to the TBox.

WHAT'S IN THE BOX?

The TBox TG2's expansive historical data storage capacity means that it can log hundreds of thousands of time-stamped event-driven records and transmit data wirelessly, year after year.

WIRELESS LOGGER

The TBox TG2 combines the logic and control capability of an RTU with the ultra-low-power operation of a wireless logger. It removes the necessity for multiple devices for one application. The unit's digital output and logic processing capabilities mean you can control your remote assets wirelessly. It can be controlled remotely via a network from a PC or laptop with programmable logic and is SCADA compatible including TView, InTouch, iFix and more.

PROGRAMMING

Advanced All TBox devices are programmable with the same software suite, TWinSoft, which allows for standard applications to create matching site-specific requirements. It also allows for the creation of interactive web pages, where users will be able to monitor and control their site assets. Users can quickly complete their applications and dynamically control communication, alarms, data logging and logic, locally or remotely, in complete security.
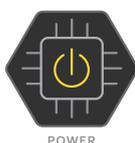
APPROVALS

The TBox TG2 meets the CE, UL/CSA, FCC, RCM, RED, Class I Div 2 and IEC 60068-2/6/27/31/64 standards.

Find an authorised Ovarro partner to make sure the TBox TG2 is part of your next project by visiting Ovarro.com.

SUITABLE APPLICATIONS:

 BROADCAST
 OIL & GAS
 POWER
 TRANSPORT
 WATER

CONTACT US:

E-mail	sales@ovarro.com
Web	www.ovarro.com
Twitter	www.twitter.com/ovarro_ltd
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