

TBOXMS

## Market leading fully-modular remote monitoring, control and automation solution

The TBox MS remote telemetry unit (RTU) from Ovarro is a highly resilient and secure automation platform for critical and demanding supervisory control and data acquisition (SCADA) applications. It combines the power of Internet-connected technology with modular-based architecture to create a class-leading remote control and automation solution.

The TBox MS is the result of Ovarro's 30-plus years of experience in the telemetry industry. With modular construction, the RTU allows you to match the needs of practically any application. Ovarro's TBox devices are used across the world, in a wide variety of transport and infrastructure applications.



### FEATURES & BENEFITS AT A GLANCE:

All TBox products give you everything needed to create high-performance, yet economical, SCADA applications. Ovarro combines internet protocol (IP) capabilities with an unmatched software package, so you can transform your measurement and control ideas into powerful solutions. But what makes the TBox MS so special?

With a modular design, features like alarm management and data logging functions are integrated into the TBox MS. Open programming tools can also be adapted to the end user's specific requirements. This is reinforced by one of the market's most powerful processors to give you real-time access anytime, anywhere, including with mobile devices.



#### • Modular design

- Install only the necessities for reduced capital expenditure (CapEx) and operational expenditure (OpEx)
- Expand or scale the system as your business or network requires



#### • GSM (4G) card

- The TBox MS is compatible with a SIM card, so its data can be accessed with standard interfaces including mobile phones, tablets or PCs. The RTU can quickly integrate with IT and IoT systems, providing your mobile workforce with easy access to data.



#### • IoT team ready

- The TBox MS is equipped with an advanced development kit (ADK) circuit board, which includes C, C++ add-ons, and is Azure and AWS compatible. The box has the connectivity and flexibility to meet the existing and future needs of your IoT team's requirements and infrastructure.



#### • Alarm management

- The TBox MS-32 RTU can automatically send mobile-friendly reports with live and historical information, alarms and event notifications to multiple recipients — so it's possible to reduce asset downtime through speedier response. Smart alarm management is supported by an embedded calendar.
- The alarm management functionality eliminates wasted site visits, improving operational performance, productivity and response time



#### • Multiple ports and Ethernet

- Data in the TBox MS can be accessed with standard interfaces, including a GSM (4G) card that would otherwise work in mobile phones. The TBox can quickly integrate with IT and IoT systems and provide mobile workers with easy access to data.



## WEB SERVER TECHNOLOGY

The modular TBox MS remote telemetry unit provides real-time remote access and control of your assets, using the latest web server technology.

- The TBox MS comes with 4G or LTE modem options, providing real-time remote access and control of your assets using VPN for cyber-secure connections
- On-board web server technology eliminates the need for complex SCADA software and costly HMI displays

Advanced analytical tools and libraries significantly reduce development time. With TWinSoft, users can quickly complete their applications and dynamically control communication, alarms, data logging and logic, locally or remotely, in complete security. Advanced All TBox devices are programmable with the TWinSoft software suite.

## CASE STUDY - HELPING THE TRAINS RUN ON TIME

Although it was founded in 1926, the National Company of Belgian Railways, otherwise known as Infrabel, still faces reputational damage if there are delays to its services — or, worse still, rail accidents. Switching facilities are located approximately 1km apart across the 3,536km network, which runs throughout Belgium. Each is a potential opportunity for failure, so sophisticated monitoring and preventative maintenance systems were needed.

The TBox MS RTU was chosen to monitor the facilities' signal status, building temperature, automated ventilation control and more, before feeding back this data with timely notifications. The RTU communicates over a dual, fibre optic network that resists high electrical interference common to the rail network. Its wide temperature range and rugged design make it suitable for the outdoors, with open comms to help Infrabel's rail network run safely and securely.



## INPUTS AND OUTPUTS

The TBox MS benefits from a flexible input/output range, which makes it easy to configure and user-programmable. It is equipped with built-in analogue and digital modules, removable I/O connectors and a resolution of 20 bits. That includes an RS484 serial port, the standard for use in serial communications systems.

## WHAT'S IN THE BOX?

The TBox MS has 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. All TBox devices and connected assets are protected by a state-of-the-art cyber security suite including authentication, encryption, firewall, SSL/TLS, HTTPS, SMTPS, SFTP/FTPS and VPN. Now all remote assets and processes are under your control and within reach.





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### WIRELESS LOGGER

The TBox MS 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. The TBox can be controlled remotely via a network from a PC or laptop with programmable logic and has wireless LTE/4G, NB-IoT (Cat M1 & NB1), USB and RS485 capabilities.

### 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 MS meets the CE, UL/CSA, C1D2, FCC, RCM and RED standards.



Find an authorised Ovarro partner to make sure the TBox MS is part of your next project by visiting [Ovarro.com](http://Ovarro.com).

### SUITABLE APPLICATIONS:

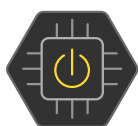
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