servelec technologies

TBox

Powerful RTU solutions for remote automation and monitoring.

High performance and economical automation and monitoring hardware that:

Reduces installation costs by 50% compared with an installed point linked to a SCADA or PLC network (DCS).

Requires no complex programming and simplifies systems engineering.

Provides real-time access on the go with no need for additional front-end devices.

Includes complete TCP/IP & Web suite, including state-of-the-art cyber-security.

Servelec Technologies' TBox all-in-one architecture can reduce installation costs by up to 50% over configurations that combine PLC, communications and SCADA components. TBox integrates:

Powerful automation capabilities.

Push notifications by email, FTP and SMS and sophisticated alarm management.

Intelligent data logging.

Real-time, mobile access through a standard web browser.

A built-in cyber-security suite with state-of-the-art authentication and encryption technology.

Innovative push and multi-platform web server technologies open up new possibilities. Users have complete real-time access, to monitor and control applications with their mobile devices and PCs - anytime and anywhere.

Supporting a broad array of communications protocols including Modbus, DNP3, DF1, EtherNet/IP, IEC60870 and many others allows TBox to be dropped into traditional SCADA networks.

Where can TBox be used?

The ruggedness of the TBox hardware makes it ideal for applications in demanding environments for industries such as agriculture, broadcast, telecommunications, energy, irrigation, mobile asset management, oil and gas, smart grid, transportation, vendor-managed inventory and water and wastewater.

The benefits of TBox

TBox enables the complete integration of SCADA, telemetry and control functionality in a single package. Compatibility with an array of discrete and intelligent devices, combined with advanced telemetry and web capabilities, simplifies systems engineering and reduces installation costs by up to 50%.

What can TBox do?

- Internet compatibility

All TBox products manage online communications without the need for a front-end device. Servelec's software tools simplify configuration of online data and communications messaging. No complex programming is required.

- Email

At a specific time or following a change of state activity, a TBox RTU can automatically send messages to multiple recipients with attachments such as complete reports with live and historical information, alarms and event notifications. Unlike similar products, TBox formats and maintains reports, which are mobile friendly for viewing on the move.

- SMS

Like email, SMS messages can be transmitted to multiple recipients at a scheduled time or following an event.

- SCADA compatibility

Feature-rich TBox products can be dropped into traditional exisitng SCADA systems, which use a variety of protocols including DNP 3.0, IEC 60870-5 and Modbus.

- Multi-communications

Incredibly flexible, TBox products interface with Ethernet, RS-232, RS-485, GSM/cellular network, PSTN modem and more. Each port operates independently of each other, uses any protocol, and can be set as master or slave.

- Programmable control

Servelec's programming and dynamic analytical tools and libraries significantly reduce development time even for complex multitasking automation requirements.

- Alarm management

TBox RTUs use push communications to send multimedia messages, to defined groups and devices using escalation and shift management protocols. Actions taken are recorded on the TBox's local memory.

- Datalogging

Each TBox has enough memory to securely record years of time stamped, encrypted data plus removable high-capacity memory cards provide additional flexibility.

- Intelligent end device compatibility

The TBox seamlessly interfaces with a host of devices such as access control, analysers, barcode readers, chromatographs, flow meters, and smart transmitters to create a truly multi-functional system.

TBox product range

The TBox range is designed for scalability. Users can select a compact package for small systems, a modular package for larger systems or ultra-low-power products which are designed for use in the most remote locations that lack commercial power. All products are fully compatible in communications and configuration.

TBox MS

TBox MS is a modular system that packs the processing power and multi-communications capabilities to suit virtually any process and is available in configurations using up to 20 card slots. Rugged hardware installs on a DIN rail or 19-inch rack and performs over a broad range of operating environments.

TBox LT2

The powerful processor inside this compact all-in-one RTU makes it ideal for any automation or measurement application. TBox LT2 includes up to 26 I/O points, Ethernet, USB, RS 232, RS 485 and optional cellular modem or full RS 232/RS 485 port. I/O is expandable using "RM2" compact modules.

TBox TG2

Completely compatible with TBox LT2 but without I/O points, the TBox TG2 TeleControl Gateway automates fixed or mobile assets and cost-effectively connects them to the Internet for worldwide monitoring.

TBox RM2

The RM2 modules connect a wide variety of electrical, electronic and mechanical devices and sensors to computers and applications over standard Ethernet networks.

TWinSoft

Designed with a Windows-style menu, TWinSoft is an easy-to-use and intuitive tool to configure TBox hardware. The wizard, simple dialogue boxes and predefined variables allow users to rapidly complete their applications and dynamically control communication, alarms, data logging and logic, locally or remotely, in complete security. TWinSoft also includes WebForm Studio which allows users to create dynamic embedded web pages without any coding knowledge.
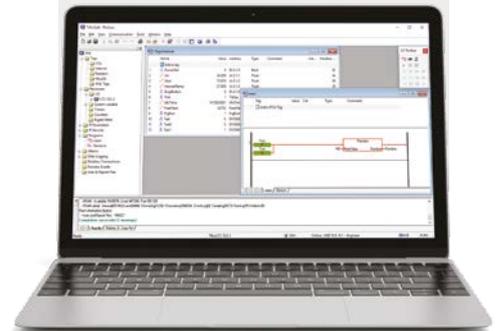
TConnect

Our TConnect software is a secure solution which simplifies remote access, configuration, monitoring and control of all TBox hardware. With TConnect you can access any TBox hardware connected to a GSM/cellular network without the need for a fixed (and costly) IP address or a dynamic DNS. TConnect takes care of configuration and registration automatically, removing the need to manage a VPN network.

Core Capabilities

All TBox products provide the following core functionality:

* Embedded Internet, Web server, FTP, email, IP pass-through
* Alarm management and intelligent data logging
* Multi-protocol (DNP 3.0, IEC 60870-5, Modbus, SNMP, TCP/IP and more)
* Cyber security suite with authentication, encryption, firewall, SSL/TLS, HTTPS, SMTPS SFTP/FTPS and VPN
* Powerful PLC features
* -40 to + 70°C operating temperature range
* Rugged design; TBox LT2 carries Class 1, Division 2 hazardous area approval

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