



 **servelec technologies**

 **TBoxLT2**

All-in-one Internet-ready RTU
for automation and monitoring
applications.



Our TBox LT2 RTU offers outstanding functionality from a single compact, rugged unit, providing:

Up to 50% cost savings over systems that combine PLC, communications and SCADA components.

Optional integrated wireless cellular communications.

Innovative push and multi-platform web server technologies.

Complete access to alarms, live conditions and historical data via mobile device, tablet or PC - anytime and anywhere.



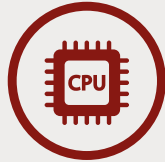
Servelec Technologies' TBox LT2 is a powerful self-contained remote telemetry unit with the versatility for almost any remote monitoring and control application. Thousands of TBox LT2 units are in operation across the globe controlling building systems at world-renowned landmarks, monitoring broadcast transmissions to millions of people and monitoring supply levels of essential commodities such as oil, gas and water.



Onboard web server technology, eliminating the need for complex SCADA software and costly HMI displays.



Integrated wireless communication providing complete access to alarms, live conditions and historical data on your mobile device.



Servelec's advanced Series 2 super-powerful processing engine.



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

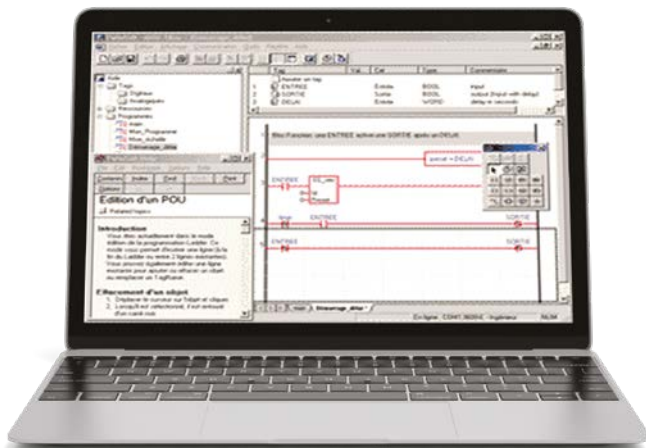


Push notifications by email, FTP and SMS and sophisticated alarm management



A rugged design which withstands the harshest environments and carries Class 1, Division 2 hazardous area approval.

Built within every TBox device is Servelec Technologies' 30 years of experience in the telemetry industry. TBox products can provide everything you need to create high-performing yet economical SCADA and control applications for critical functions. The TBox range of scalable products also includes state-of-the-art, user-centric software packages and additional hardware to transform your measurement and control aspirations into time and cost saving solutions.



Intuitive configuration

- 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.



Control and monitor your network on the move

- TConnect

TConnect is a secure software package that 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 registration automatically, removing the need to manage a VPN network.

Specification

Designation	Industrial-grade remote terminal unit (RTU)
Processor	32 bits ARM9, 400MHz
Clock	Real-time clock with battery backup
Memory	32MB NOR Flash 64MB DDR2 SDRAM 1MB SRAM with lithium battery backup
Communication	Industrial grade SD / μ SD card to 32GB (see our price list)
Inputs/outputs LT2-530	Ethernet (10/100), USB, Serial (RS-232/RS-485) and optional LTE/4G modem
Inputs/outputs LT2-532	16 digital inputs or outputs (3 DI can be counter inputs)
Inputs/outputs LT2-540	8 analogue inputs (4-20mA or 0-10Vdc) Adds 2 analogue outputs (4-20mA) to the I/O count above
Inputs/outputs LT2-542	16 digital inputs or outputs (3 DI can be counter inputs)
Inputs/outputs LT2-562	6 analogue inputs (4-20mA or 0-10Vdc) 2 temperature inputs (Pt1000) Adds 2 analogue outputs (4-20mA) to the I/O count above
LT2-xxx-4W	24 digital inputs or outputs (3 DI can be counter inputs)
LT2-xxx-S	1 analogue inputs (4-20mA or 0-10Vdc) 1 analogue output 4-20 mA
Power supply	12 LTE Bands (4G), 7 UMTS/HSPA+ Bands (3G) and 4 GPRS/EDGE Bands (2G) Full RS232 serial port
Power backup	DC powered, 9 to 30V DC, solar panel can be used Card consumption is typically 1.2W @24VDC Embedded battery charger, 13.8VDC temperature compensated For sealed lead acid batteries only; recommended model: 7AH, nom. 12V DC Connectors Spring-cage terminal blocks for power, I/O, RS-232 and RS-485 Linux Kernel (with real-time extensions)
Operating System	Via TWinSoft Suite (including WebForm Studio and Report Studio)
Programming	Ladder logic, Basic & Function blocks (IEC 61131-3) and optional C/C++ add-ons
Languages	Smart alarm management with embedded calendar
Alarm handling	Smart data logging: Sampling tables (periodic) + digital & analogue chronologies (event)
Data logging	TVIEW, InTouch, iFix, WIZCON, CITECT, Topkapi, Cube, Labview, Panorama, Scope-X...
SCADA compatible	Up to firmware level
Remote upload	HTTP, FTP, SMTP & POP3, SNMP, IP forwarding, DynDNS, NTP
IT features	Support for over 40 protocols, including Modbus (master/slave, RTU/TCP/ASCII), DNP 3.0, IEC 60870-5, OPC UA, MQTT, Siemens ISO-TCP, Allen Bradley DF1, EtherNet/IP, IEC 61850 and many more
Protocol support	4 levels of authority, HTTP login, SSL/TLS, X.509 Certificates, IEEE802.1x "IP Security" with: Firewall, HTTP log-in, HTTPS, SFTP, FTPS, SMTPS, VPN, SSH
Security	150mm (H) x 83mm (D) x 29mm (W) / 5.91" x 3.27" x 1.4"
Size	300gr /10.6oz
Weight	Storage: -40°C to +80°C / -40°F to 176°F
Temperature	Working: -40°C to +70°C / -40°F to +158°F
Humidity	0-95% non-condensing
Material	Proprietary aluminum enclosure, Alodine coating for corrosion
Approvals	CE, UL/CSA, FCC, RCM, RED, Class I Div 2, IEC 60068-2/6/27/31/64
MTBF	>1,000,000 hours, statement available upon request

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