



 **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.



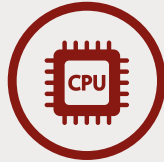
Servelec Technologies' TBox LT2 is a powerful self-contained remote telemetry unit with the versatility for almost any remote monitoring and control application. Thousands of TBox LT2 units are in operation across the globe controlling building systems at world-renowned landmarks, monitoring broadcast 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 cyber-security suite with state-of-the-art authentication and encryption technology.

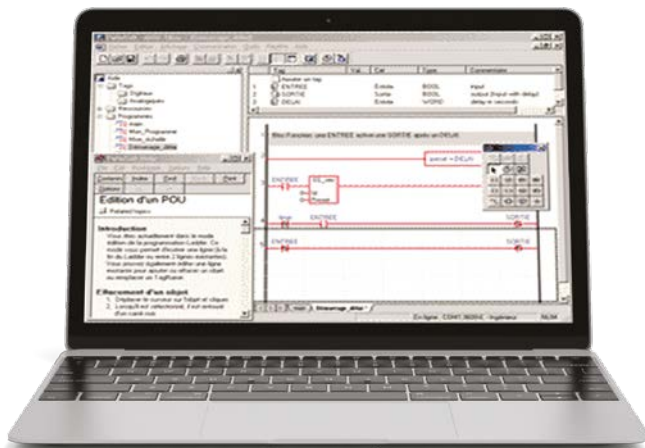


Push notifications by email, FTP and SMS and sophisticated alarm management



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.

TBox LT2 specifications

INPUTS & OUTPUTS

| | |
|--------------------------|---|
| Removable I/O connectors | Removable spring-cage terminal blocks |
| Digital modules | 16 digital inputs or outputs (3 DI can be counter inputs) |
| Analog modules | 8 analog inputs, 2 analog outputs |
| Temperature modules | 2 temperature inputs |

PROCESSOR UNIT

| | |
|-----------------|--------------------------------------|
| Type | 32-bit ARM9, 400MHz |
| Flash RAM | 32MB NOR Flash |
| RAM | 64MB DDR2 SDRAM |
| Real-time clock | Yes with battery backup |
| Battery backup | 1MB SRAM with lithium battery backup |
| Event logging | Up to 100,000 events |

COMMUNICATIONS SUPPORTED

| | |
|-------------------|---|
| Communication | Ethernet, USB, RS-232, RS-485, GSM 3G/LTE modem, full serial port |
| Total Ports / RTU | 5 |
| Master/slave | Yes |
| Peer-to-peer | No |
| Fallback levels | No |
| PC link | Yes |
| Protocol | SMTSPS IP forwarding DynDNS NTP Modbus DNP 3.0, IEC 60870-5 Siemens ISO-TCP Allen Bradley |

CONFIGURATION

| | |
|--------------------|---|
| Local (PC/Laptop) | Yes |
| Remote via network | Yes |
| Programming | Via TWinSoft suite (including WebForm Studio and Report Studio) |
| Languages | Ladder logic, Basic, Web Services, advanced development via ADK |

DEBUG

| | |
|-----------------------|-----|
| Local watchdog timer | Yes |
| Communication status | Yes |
| Configuration display | Yes |
| I/O status | Yes |
| Debug | Yes |

DIAGNOSTICS

| | |
|----------------------------|-----|
| Instant alarm notification | Yes |
| Datalogging | Yes |
| Pre programmed | Yes |
| Trace log | Yes |
| Reports | Yes |

POWER

| | |
|-------------------------|---|
| DC supply | DC powered, 9 to 30V DC |
| Solar supply | Solar panel can be used |
| Power down modes | No |
| Battery backup | Yes |
| Battery size | 7AH, nom. 12V DC |
| Battery charging option | Embedded battery charger, 13.8VDC temperature compensated |

ENVIRONMENTAL

| | |
|---------------------|---|
| Ambient temperature | -40°C to +70°C / -40°F to +158°F |
| Storage temperature | Storage: -40°C to +80°C / -40°F to 176°F |
| Humidity | 0-95% non-condensing |

CYBER SECURITY

| | |
|----------------|--|
| Authentication | Four level of authority, HTTP login, SSL/TLS, Certificates, IEEE802.1x |
| IP Security | Firewall (level 1, 2 and 3), HTTP login, HTTPS, SFTP, SMTSPS, VPN, SSH |

DIMENSION

| | |
|--------|---------------|
| Width | 29mm (1.4") |
| Height | 150mm (5.91") |
| Depth | 83mm (3.27") |

CERTIFICATIONS

CE, UL/CSA, FCC, RCM, RED, Class I Div 2, IEC 60068-2/6/27/31/64



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