servelec technologies

TBox LT2: All-in-one Internet-ready RTU for automation and monitoring applications.

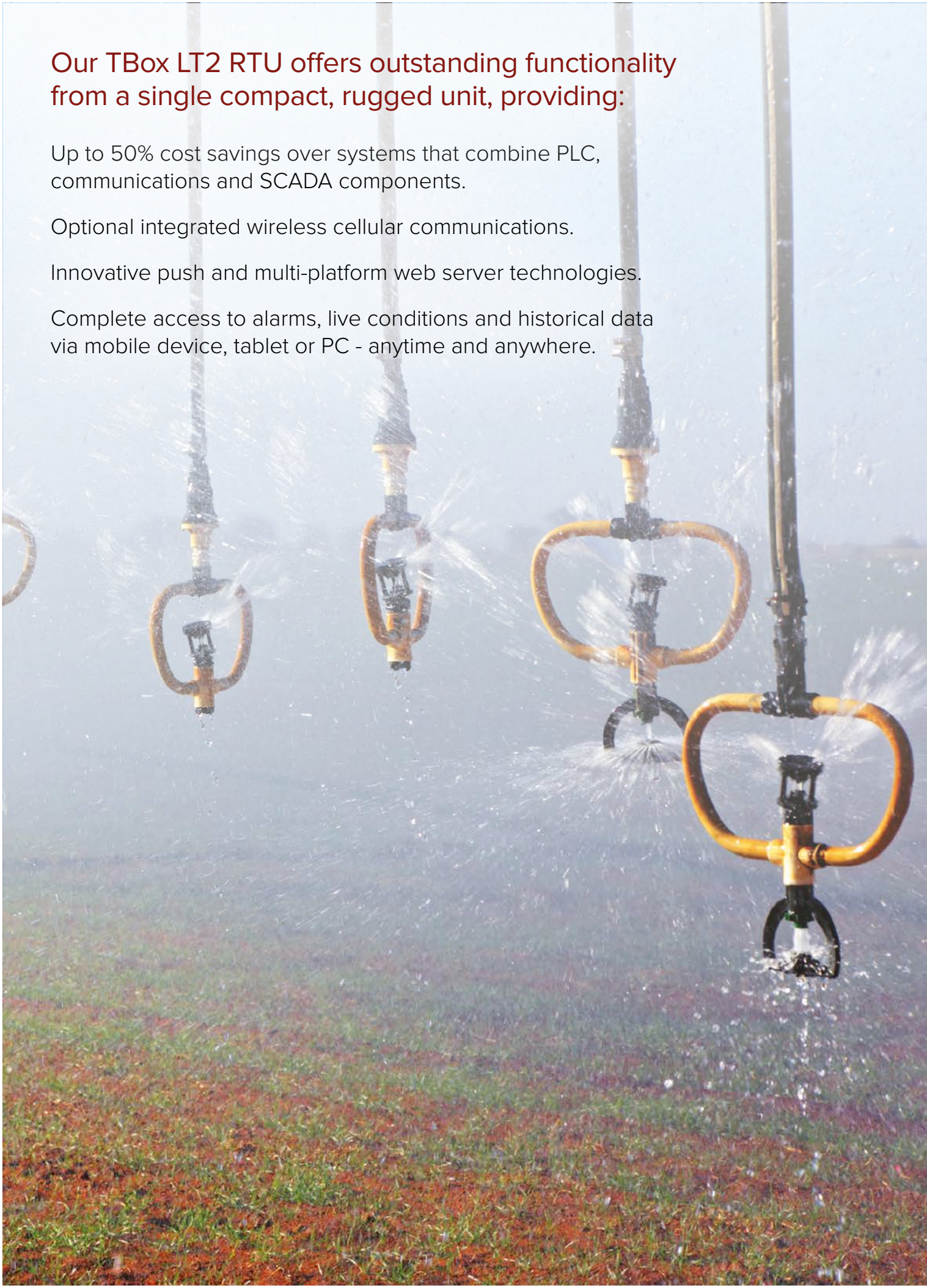
Our TBox LT2 RTU offers outstanding functionality from a single compact, rugged unit, providing:

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.

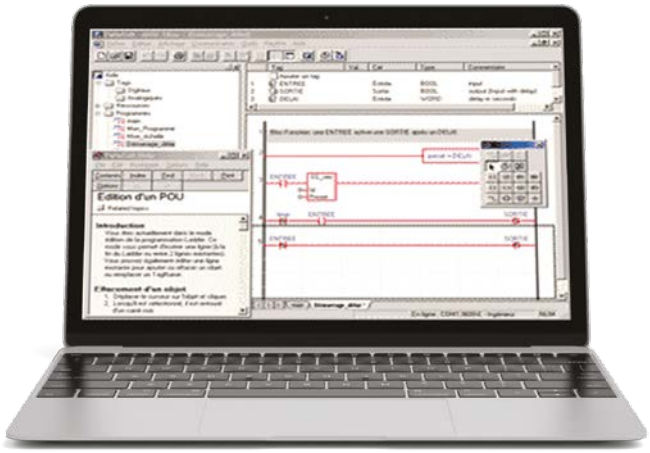
Servelec's advanced Series 2 super-powerful processing engine.

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.

Specification

Designation	Industrial-grade remote terminal unit (RTU)
Processor	32-bit ARM9, 400MHz
Clock	Real-time clock with battery backup
Memory	32MB NOR Flash
	64MB DDR2 SDRAM
	1MB SRAM with lithium battery backup
	Industrial grade µSD card to 32GB (see our price list)
Communication	Ethernet (10/100), USB, Serial (RS-232/RS-485) and optional GSM 3G/LTE modem
Inputs/outputs LT2-530	16 digital inputs or outputs (3 DI can be counter inputs)
	8 analogue inputs (4-20mA or 0-10VDC)
Inputs/outputs LT2-532	Adds 2 analogue outputs (4-20mA) to the I/O count above
Inputs/outputs LT2-540	16 digital inputs or outputs (3 DI can be counter inputs)
	6 analogue inputs (4-20mA or 0-10VDC)
	2 temperature inputs (Pt1000)
Inputs/outputs LT2-542	Adds 2 analogue outputs (4-20mA) to the I/O count above
Power supply	DC powered, 9 to 30V DC, solar panel can be used
	Card consumption is typically 1.2W @24VDC
Power backup	Embedded battery charger, 13.8VDC temperature compensated
	For sealed lead acid batteries only; recommended size: 7AH, nom. 12V DC
	Connectors Spring-cage terminal blocks for power, I/O, RS-232 and RS-485
Operating system	LinuxRT (real-time) based
Programming	Via TWinSoft Suite (including WebForm Studio and Report Studio)
Languages	Ladder logic, Basic & Function blocks (IEC 61131-3) and optional C/C++ add-ons
Alarm handling	Smart alarm management with embedded calendar
Data logging	Smart data logging: Sampling tables (periodic) + digital & analogue chronologies (event)
SCADA compatible	TView, InTouch, iFix, WIZCON, CITECT, Topkapi, Cube, Labview, Panorama, Scope-X ...
Remote upload	Up to firmware level
IT features	HTTP, FTP, SMTP & POP3, SNMP, IP forwarding, DynDNS, NTP
Protocol support	Support for over 40 protocols, including Modbus (master/slave, RTU/TCP/ASCII), DNP 3.0, IEC 60870-5, Siemens ISO-TCP, Allen Bradley DF1, EtherNet/IP, IEC 61850 and many more
Security	4 levels of authority, HTTP login, SSL/TLS, IEEE802.1x
	"IP Security" with: Firewall, HTTP log-in, HTTPS, SFTP, FTPS, SMTPS, VPN, SSH
Size	150mm (H) x 83mm (D) x 29mm (W) / 5.91" x 3.27" x 1.4"
Weight	300gr / 10.6oz
Temperature	Storage: -40°C to +80°C / -40°F to 176°F
	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