TBOX LT2

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

Designation	Industrial-grade remote terminal unit (RTU)
Processor	32 bits ARM9, 400MHz
Clock	Real-time clock with lithium 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)
Toggle switch	Run – Stop – Reset
Communication	Ethernet (10/100), USB, Serial (RS-232/RS-485) and optional LTE/4G modem
LT2-xxx-4W-2	12 bands LTE(4G), 7 bands UMTS/HSPA+ (3G), 4 bands GPRS/EDGE (2G)
LT2-xxx-S	One additional full RS232 serial port
Power supply	DC powered, 9 to 30VDC, 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 model: 12V, 7Ah

Models LT2 -	500	510	520	530	532	540	542	562
Digital Inputs or Outputs (3DI can be counters)	0	10	10	16	16	16	16	24
Analog Inputs (4-20mA or 0-10VDC)	0	0	4	8	8	6	6	1
Analog Outputs (4-20mA)	0	0	0	0	2	0	2	1
Temperature Inputs (Pt1000)	0	0	0	0	0	2	2	0

Connectors	Spring-cage terminal blocks for power, I/O, RS-232 and RS-485
Operating System	Linux Kernel with TBox Telecontrol stack
Programming	Via TWinSoft Suite (including WebForm Studio 2.0 and Report Studio)
Languages	Ladder logic, BASIC (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, Control Maestro, CITECT, Topkapi, Cube, Labview, Panorama, Scope-X, VTScada
Remote upload	Up to firmware level
IT features	HTTP(S), FTP(S), SMTP(S) & POP3(S), SNMP, IP forwarding, DynDNS, NTP, SSH/SCP/SFTP
Protocol support	Support for over 40 protocols, including Modbus (master/slave, RTU/TCP/ASCII), DNP 3.0, IEC 60870-5-101/104, OPC UA, MQTT(S), Siemens ISO-on-TCP, Allen Bradley DF1 & EtherNET/IP, and many more
Security	Firewall, 4 levels of authority, HTTP Session Authentication, SSL/TLS & X.509 Certificates, IEEE802.1X
Size	150mm (H)x 83mm (D)x 29mm (W) / 5.91" x 3.27" x 1.4"
Weight	515gr/18.17oz
Mounting	DIN rail fixing
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
Altitude	Max. 4000m
Material	Proprietary aluminium enclosure, Alodine coating against corrosion
Approvals	CE, UL/CSA, FCC, IC, 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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