

TBOX LITE



- All-in-one RTU solution
- PLC + Telemetry + Internet
- 4 communication ports
- Compact size
- Robust and reliable
- Multi-protocols
- Low cost

TBOX

Advanced Telecontrol Solutions

TBOX LITE

Advanced compact-sized RTU



All the power of TBOX in a compact sized device

Do you have a remote control project involving hundreds of identical RTUs? Are you looking for a cost-effective, powerful, non-modular telemetry solution for many similar projects? Then TBOX-LITE is made for you! Complete functionality of the advanced TBOX concept in a small ruggedized enclosure. For large number of applications requiring fixed number of inputs/outputs and specific communications ports, TBOX-LITE is an affordable and powerful solution for your remote control applications. There are many different models of TBOX LITE available to fit your application requirements. If your requirements change over time you can easily upgrade to the TBOX MS series which uses the same form factor and allows transparent portability of your application program. For custom OEM equipment and high volume applications we will even customize a TBOX to your own specifications and layout.

The best of three worlds...

TBOX-LITE offers all the power of the field-proven TBOX concept: advanced **Telemetry** (alarms, datalogging, protocol conversion,...), complete **Automation** and **Internet** compatibility (Web Server, email, FTP)

TBOX LITE main controller board

CPU 16-Bit μ P at 7.37 Mhz
Real Time clock, battery backed
768K Flash memory
128K SRAM, battery backed
Multimediacard support: optional (up to 1 Gb support)
Standard datalogging with timestamp (up to 150.000 records)
Remote upload of application program and firmware

Communications

Four built-in communications ports (depending on model):

- COM1: Dual Band GSM/GPRS or 56 Kb PSTN modem
- COM2: RS232 for programming and diagnostics
- COM3: RS485 local ModBus networking
- COM4: Ethernet 10/100Base-T

Protocols: «Timestamped ModBus», TCP/IP, IEC6870-5, DNP3.0, ModBus/TCP...

Network Topology: point-to-point, multipoint, Master/Slave,...

GSM/GPRS Antenna: optional, FME connector

Security with 4 access levels on each port.

Inputs & outputs

Depending on model:

LT-200-XX: 2 counter inputs, 8 digital inputs or outputs - no isolation/no protection, 6 analog inputs 4-20 mA, 13 bits not isolated, passives, no protection, 2 temperature inputs (Pt1000) 4 relays outputs (230Vac 3A)

LT-201-XX: 2 counter inputs, 8 digital inputs or outputs - no isolation/no protection, 2 analog inputs 0-2mA, 13 bits not isolated, passives, no protection, 6 temperature inputs (Pt1000) 4 relays outputs (230Vac 3A)

LT-300-XX: 16 digital inputs/outputs, 6 digital inputs, 8 analog inputs 4-20mA, 2 analog outputs 4-20mA

Other models, please call.

Programming

By TwinSoft programming Suite, including IEC61131 Ladder Diagram for local automation and/or internal script language (BASIC).

WebForm Studio for Web page editor (mini-SCADA inside) and Report Studio for email editor

General

Power supply: 20..30 VDC with internal battery charger

Switch Reset/Run/Stop

Enclosure: aluminium anodized - IP34 compatible

Wiring: by removable terminal blocks

DIN rail mounting with fixing springs

Operating conditions: -20°C to +65°C

Humidity: 0 to 95% non-condensed

Dimensions: 152x85x29 mm

5.98x3.35x1.14 in. (WxHxD)

Weight: 600 gr - 21.16 oz. (without battery)