### 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: 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

### Inputs/Outputs
- **LT2-530**
  - 16 digital inputs or outputs (3 DI can be counter inputs)
  - 8 analogue inputs (4-20mA or 0-10VDC)
- **LT2-532**
  - Adds 2 analogue outputs (4-20mA) to the I/O count above
- **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)
- **LT2-542**
  - Adds 2 analogue outputs (4-20mA) to the I/O count above
- **LT2-562**
  - 24 digital inputs or outputs (3 DI can be counter inputs)
  - 1 analogue inputs (4-20mA or 0-10VDC)
  - 1 analogue output (4-20 mA)

### 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 & 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, 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, IEC-61850 (MMS) 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
- 515g/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