



# TBOX TG2

Designed for digital gateway solutions

<b>Designation</b>	Industrial-grade remote terminal unit (RTU)
<b>Processor</b>	32 bits ARM9, 400MHz
<b>Clock</b>	Real-time clock with lithium battery backup
<b>Memory</b>	32MB NOR Flash 64MB DDR2 SDRAM 1MB SRAM with lithium battery backup Industrial grade µSD card to 32GB (see our price list)
<b>Toggle switch</b>	Run – Stop – Reset
<b>Communication</b>	Ethernet (10/100), USB, Serial (RS-232/RS-485) and optional LTE/4G modem
<b>TG2-xxx-4W</b>	12 LTE Bands (4G), 7 UMTS/HSPA+ Bands (3G) and 4 GPRS/EDGE Bands (2G)
<b>TG2-xxx-S</b>	One additional full RS232 serial port
<b>Power supply</b>	DC powered, 9 to 30VDC, solar panel can be used Card consumption is typically 1.2W @ 24VDC
<b>Power backup</b>	Embedded battery charger, 13.8VDC temperature compensated For sealed lead acid batteries only; recommended model: 12V, 7Ah
<b>Connectors</b>	Spring-cage terminal blocks for power, RS-232 and RS-485
<b>Operating System</b>	Linux Kernel with TBox Telecontrol stack
<b>Programming Languages</b>	Via TWinSoft Suite (including WebForm Studio and Report Studio) Ladder logic, Basic & Function blocks (IEC 61131-3) and optional C/C++ add-ons
<b>Alarm handling</b>	Smart alarm management with embedded calendar
<b>Data logging</b>	Smart data logging: Sampling tables (periodic) + digital & analogue chronologies (event). Up to 250 000 timestamp data. Possible expansion on SD card.
<b>SCADA compatible</b>	TView, InTouch, iFix, Control Maestro, CITECT, Topkapi, Cube, Labview, Panorama, Scope-X, VTScada
<b>Remote upload</b>	Up to firmware level
<b>IT features</b>	HTTP(S), FTP(S), SMTP(S) & POP3(S), SNMP, IP forwarding, DynDNS, NTP, SSH/SCP/SFTP
<b>Protocol support</b>	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
<b>Security</b>	Firewall, 4 levels of authority, HTTP Session Authentication, SSL/TLS & X.509 Certificates, IEEE802.1X
<b>Size</b>	150mm (H)x 83mm (D)x 29mm (W) / 5.91" x 3.27" x 1.4"
<b>Weight</b>	515gr/18.17oz
<b>Mounting</b>	DIN rail fixing
<b>Temperature</b>	Storage: -40°C to +80°C / -40°F to 176°F Working: -40°C to +70°C / -40°F to +158°F
<b>Humidity</b>	0-95% non-condensing
<b>Material</b>	Proprietary aluminium enclosure, Alodine coating against corrosion
<b>Approvals</b>	CE, UL/CSA, FCC, IC, RCM, RED, Class I Div.2, IEC 60068-2-6/27/31/64
<b>MTBF</b>	>1,000,000 hours, statement available upon request

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