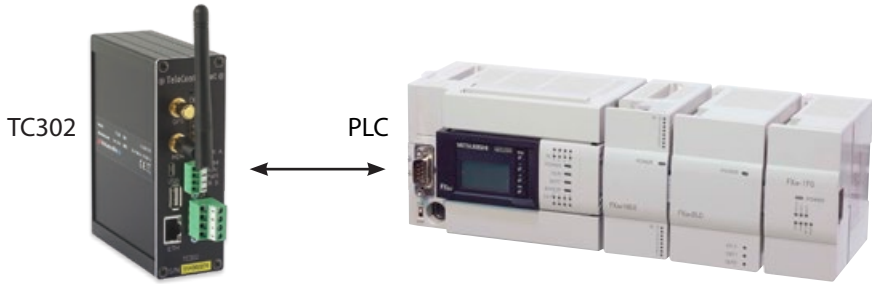


Datasheet TeleController TC302



► Introduction

The TC302 is a medium sized TeleController in a series of Remote Terminal Units (RTU) that Inter Act has developed for telemetry over internet. It can be used stand alone or it can be connected to a private and secured domain in TeleControlNet. TeleControlNet is a Software as a Service (SaaS) for WEBscada and WEBmes applications.



► Main functions

The TC302 enables controlling and monitoring of remote processes and machines. This Tele-Controller is the gateway between the local process controller (e.g. PLC) and the internet or TeleControlNet.

The TC302 can communicate real time with virtually any existing process controller. This connection does not require any change of the existing software on the local process controller. The connection with TeleControlNet can be realized via a mobile 3G APN Network or DSL.

The TC302 performs three major tasks:

1. It locally stores process data.
2. It receives remote user controls to be submitted to the local process controller.
3. It sends process alarms in real time to TeleControlNet.

► Main features

- Single board Arm processor for 35 mm DIN rail mounting, including internal 3G modem.
- Applicable in PLC control systems as HMI (WEBscada) terminal.
- Can also be supplied without WEBscada software.

► Processor

ARM9™ processor

The ARM926EJ-S processor (400 Mhz, 32/32 K, 256 MB of on-board DDR2 Memory) is a member of the ARM9™ family of general-purpose microprocessors. The ARM926EJ-S processor is targeted at multi-tasking applications where full memory management, high performance, low die size, and low power are all important.

Expansion capacities via SD card reader, bootable microSD reader, SIM card slot and MiniPCI-e (with USB-only) support.

► Specifications

CPU

- Atmel ARM926EJ-S @ 400 MHz

System memory

- 256 MB DDR2

Supported frequency bands

- GSM/GPRS/EDGE: 850/900/1800/1900 MHz
- UMTS/HSDPA/HSUPA: 800-850/900/1900/2100 MHz (B1, B2, B5, B6, B8)

Max connectivity speeds

- GSM: 14.4 Kbps DL/14.4 Kbps UL
- GPRS: 85.6 Kbps DL/85.6 Kbps UL (class 12)
- EDGE: 236.8 Kbps DL/236.8 Kbps UL (class 12)
- UMTS mode: 384 Kbps DL/384 Kbps UL
- HSDPA mode: 14.4 Mbps (Cat 10) downlink speed
- HSUPA mode: 5.76 Mbps (Cat 6) uplink speed
- HSPA+ Rel 7 SW features CPC (DTX/DRX), HS-SCCH-less operation, Enhanced CELL_FACH, Enhanced L2, EF-DPCH

Max RF output power

- Power Class 4 (2 W, 33 dBm) for GSM/GPRS 850/900 MHz bands
- Power Class 1 (1 W, 30 dBm) for GSM/GPRS 1800/1900 MHz bands
- Power Class E2 (0.5 W, 27 dBm) for EDGE 850/900 MHz bands
- Power Class E2 (0.4 W, 26 dBm) for EDGE 1800/1900 MHz bands
- Power Class 3 (0.25 W, 24 dBm) for UMTS 850/900/1900/2100 MHz bands
- Power 32 mW (15 dBm) for WiFi (GTM671/GTM679 only)

External I/O

- 1 x 3G antenna
 - 1 x 10/100 Ethernet
 - 1 x GPS antenna
 - 1 x RS232
 - 1 x RS232/422/485
 - 2 x USB 2.0
- **ACPI 2.0 compliant power management, supports power saving mode**
 - **Chipset integrated Real Time Clock (RTC) with onboard lithium battery**
 - **System reset programmable watchdog timer (timeout: 1 to 255 s or min.)**

Dimensions

- Height: 125 mm (4.9")
- Width: 42 mm (1.7")
- Depth: 95 mm (3.8")

Weight

- Approximately 515 g

Supply voltage

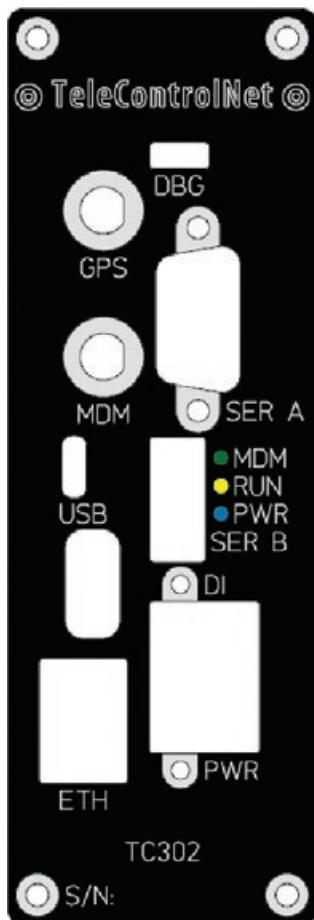
- 10 V to 30 VDC

Supply current

- 230 mA @ 12 V ~ 3 W

Temperature

- Operating: CPU: -40 °C to 85 °C; motherboard: -10 °C to 65 °C
- Storage: -20 °C to 85 °C



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