

TTP[®] Monitoring Node

The Real-Time Monitoring Solution



TTP[®] Monitoring Node provides real-time monitoring capability to TTP[®] networks for development and verification. It is a TTP-Ethernet gateway node. Based on austriamicrosystems AS8202NF TTP controller, it provides powerful facilities for monitoring and loading TTP networks. TTP[®] Monitoring Node provides MII/25 Mbit/s and MFM/Manchester/5 Mbit/s bus interfaces. Full tool support is available.

Monitoring and Loading TTP Networks

TTP is a time-triggered communication protocol for fault-tolerant, distributed, hard real-time systems. Distributed embedded computing based on TTP enables design of applications independent of underlying communication architecture, physical layer, topology or embedded host hardware.

The TTP[®] Monitoring Node is connected to a computer via Ethernet (100Base-TX). It supports a standard TCP/IP connection to the computer, where TTP[®]View and TTP[®]Load run. TTP[®]Load is used for downloading software to a TTP cluster. TTP[®]View monitors an operating TTP network. Both TTP[®]Load and TTP[®]View can communicate with the TTP[®] Monitoring Node via standard TCP/IP Internet protocols.

KEY FEATURES/BENEFITS

- Real-time monitoring of the TTP network
- Verification of the network traffic
- TTP/Ethernet gateway
- Provides loading capability to TTP network
- Full tool support
- Faster development cycles due to application loading over network

Development, Verification, Debugging

TTP[®] Monitoring Node provides real-time monitoring capability to a TTP network. It is used for development, verification and quick debugging of the network and application.

Via TTP[®] Monitoring Node, TTP[®]View monitors the network in real time. All collected data are displayed in a truly synchronous fashion, based on the access scheme of TTP. This facilitates the analysis of complex interrelationships among the messages.

TTP[®]View with the TTP[®] Monitoring Node allows recording of all real-time data on disk. This allows the user to make detailed offline analysis. Triggers can be set to automatically find significant events in the real-time data stream.

Features and Interfaces

- Freescale MPC855T PowerQUICC™ running at 80 MHz
- Communication and application status LEDs on front panel
- Reset button on front panel
- TTP interface austriamicrosystems AS8202NF TTP controller
 - MFM/Manchester on RS 485 physical layer (5 Mbit/s asynchronous, 2 channels)
 - MII on IEEE 802.3 100Base-TX physical layer (25 Mbit/s synchronous, 2 channels, requires hub and star architecture)
- TCP/IP 100Base-TX network link to a hub, switch, or PC network card
- Multi-channel serial communication interface (PCB-mounted connectors)
- Serial interface on PCB-mounted connectors

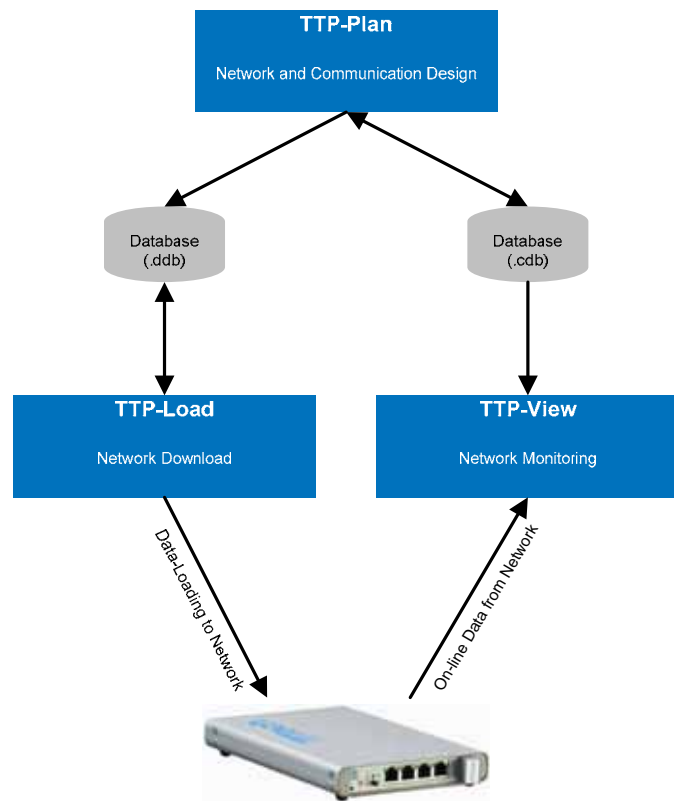
Specifications

- Dimensions: 220 x 145 x 26 (in mm)
- Weight: 770 g
- Operating temperature: 0 °C to +70 °C
- Storage temperature: -40 °C to +85 °C
- Housing and power supply included
- Power requirements: input voltage 9 to 60 V DC at max. 10 Watt and max. 1.5 A

Related Products

TTP View provides real-time monitoring of the network together with the TTP Monitoring Node.

TTP Load works with the TTP Monitoring Node and loads data (e.g., application images) to the TTP nodes in the network.



Order Number

- H02.04.2: TTP Monitoring Node

TTTech Contact Information

Europe, Austria - Headquarters
Tel.: +43 1 585 34 34-0
E-mail: products@tttech.com

North America, USA
Tel.: +1 760 603 9393
E-mail: products@tttech.com

Asia, Japan
Tel.: +81 45 470 1867
E-mail: products@tttech.com

www.tttech.com