

THP815 ARCNET Controller

Application Information

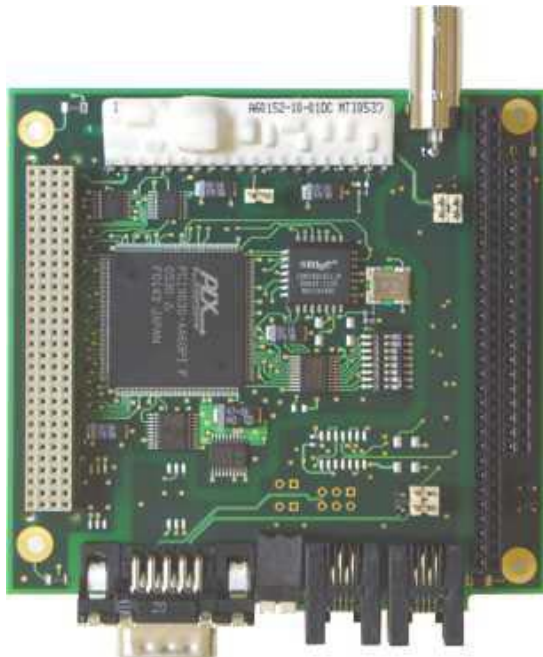
The THP815 is a standard PC/104-Plus module with a 32 bit / 33 MHz PCI interface. It provides a complete ARCNET interface for up to 5 Mbps communication using the COM20020 ARCNET controller from SMSC. The THP815 is ideal suited for industrial / factory automation and automotive applications. Various network topologies are supported (Star, Tree, Bus).

According to the PC/104-Plus specification, the THP815 has the PC/104 ISA connector mounted opposite the PC/104-Plus PCI connector. No power, ground or signal is connected to it.

The following THP815 options are available:

The THP815-11 provides the traditional isolated hybrid interface available on a BNC connector, RJ11 connectors or a DB9 connector (selected by jumper). The maximum transfer rate is 2.5Mbps.

The THP815-21 provides an isolated RS485 differential driver interface available on either a DB9 connector or RJ11 connectors (selected by jumper). The maximum transfer rate is 5Mbps.



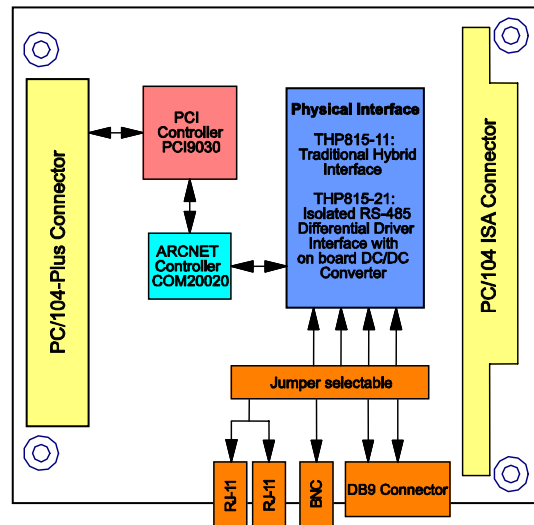
THP815-11

For First Time Users the Engineering Documentation THP815-ED is recommended. The Engineering Documentation includes THP815-DOC, schematics and data sheets.

Driver software (TDRV007-SW-xx) is available for different operating systems.

Technical Information

- Standard PC/104-Plus module conforming to PC/104-Plus specification V2.0
- PCI 2.1 compliant interface
- Board size: 95.89 mm x 90.17 mm
- ARCNET Interface based on COM20020
- Complete ARCNET controller with transceiver and Dual Port RAM
- Ideal for industrial / factory automation and automotive applications
- Deterministic 2.5Mbps (THP815-11) or 5.0 Mbps (THP815-21) Token Passing Protocol
- Improved diagnostics
- Flexible media interface
- Supports various network topologies (star, tree, bus)
- Physical interface
 - Traditional hybrid interface (isolated) for long distances. BNC, DB9 and RJ11 Connectors
 - Isolated RS485 differential driver interface with on board DC/DC converter. DB9 and RJ11 Connectors
- Operating temperature 0°C to +70°C (THP815-11), -40°C to +85°C (THP815-21)



Order Information

THP815-11	ARCNET Controller 2.5 Mbps, Traditional Hybrid Interface, BNC, DB9 and RJ11 Connectors	THP815-ED	Engineering Documentation, includes THP815-DOC
THP815-11R	RoHS compliant version of THP815-11	TDRV007-SW-42	VxWorks Software Support
THP815-21	ARCNET Controller 5 Mbps, Isolated RS485 Interface, DB9 and RJ11 Connectors	TDRV007-SW-65	Windows XP/XPE/2000 Software Support
THP815-21R	RoHS compliant version of THP815-21	TDRV007-SW-72	LynxOS Software Support
THP815-DOC	User Manual	TDRV007-SW-82	LiNIX Software Support
		TDRV007-SW-95	QNX 6 Software Support

For other operating systems please contact TEWS.

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