TPMC815  ARCNET Controller

Application Information

The TPMC815 is a standard single-width 32 bit PMC module with a complete ARCNET interface using the controller COM20020. The COM20020 contains the ARCNET controller with transceiver and Dual Port RAM. Various network topologies are supported (Star, Tree, Bus).

Two interface types of the TPMC815 are available. The TPMC815-11x offers the traditional isolated hybrid interface and the TPMC815-21x supports an isolated RS485 differential driver interface.

The maximum speed of the TPMC815-11x is 2.5 Mbps. The maximum speed of the TPMC815-21x is 5.0 Mbps. The module is ideal suited for industrial / factory automation and automotive applications.

Technical Information

- Standard single-width 32 bit PMC module conforming to IEEE P1386.1
- PCI 2.1 compliant interface
- Board size: 149 mm x 74 mm
- ARCNET Interface based on COM20020
- Complete ARCNET controller with transceiver and Dual Port RAM
- Ideal for industrial / factory automation and automotive applications
- Deterministic 2.5 Mbps (TPMC815-11x) or 5 Mbps (TPMC815-21x) Token Passing Protocol
- Improved diagnostics
- Flexible media interface
- Supports various network topologies (star, tree, bus)
- Physical interface
- Traditional hybrid interface (isolated) for long distances
- Isolated RS485 differential driver interface with on board DC/DC converter

Order Information

RoHS Compliant
TPMC815-11R  ARCNET Controller 2.5 Mbps, Traditional Hybrid Interface
TPMC815-21R  ARCNET Controller 5 Mbps, Isolated RS485 Interface

None RoHS Compliant
TPMC815-11  None RoHS compliant version of TPMC815-11R
TPMC815-21  None RoHS compliant version of TPMC815-21R

Documentation
TPMC815-DOC User Manual
TPMC815-ED Engineering Documentation, includes TPMC815-DOC

Software
TDRV007-SW-25 Integrity Software Support
TDRV007-SW-42 VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TDRV007-SW-65 Windows XP/XPE/2000 Software Support
TDRV007-SW-72 LynxOS Software Support
TDRV007-SW-82 LiNUX Software Support
TDRV007-SW-95 QNX 6 Software Support

For other operating systems please contact TEWS.