

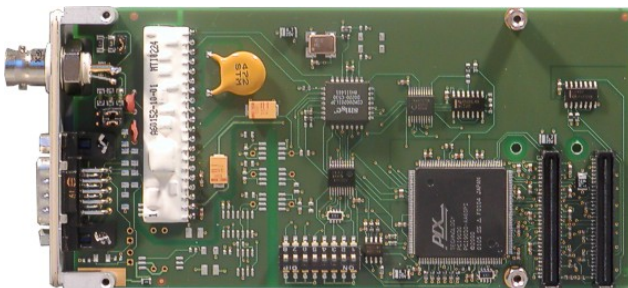
TPMC815 ARCNET Controller

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.

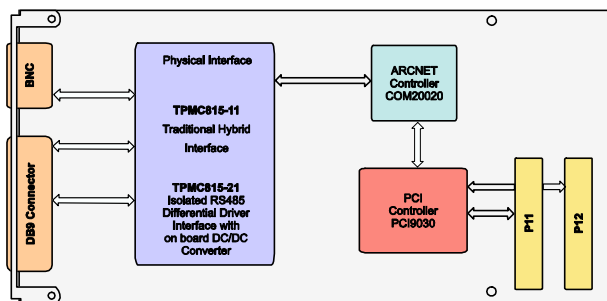
The maximum speed of the TPMC815-11x is 2.5 Mbps. The maximum speed of the TPMC815-21x is 5.0 Mbps. The module is ideal suited for industrial / factory automation and automotive applications.



TPMC815-11R

For First Time Users the Engineering Documentation TPMC815-ED is recommended. The Engineering Documentation includes TPMC815-DOC, schematics and data sheets.

Software support (TDRV007-SW-xx) is available for different operating systems.



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.