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## Development and production:

### Datasheet

The ATCA\_PTSW-AMC4\_RTM844 is an xTCA<sup>[1]</sup> based module that follows the specifications presented in PICMG<sup>®</sup> 3.8, RC1.0f from 2 July 2011 that complements PICMG<sup>®</sup> 3.0, Revision 3.0 with respect to ARTM<sup>[2]</sup> specification.

The module provides interface capabilities extension for the ATCA Base carrier. The module acts as a passive External multiple-Host to ATCA Base carrier interface, providing the required electrical and logical connections, with status information.

The module implements the following functions:

- PCI Express 8 lane over cable **upstream port**, compliant with v1.x, operating as a downstream system using ATCA Base carrier with a PCIe bay. The PCIe lanes are mapped on ATCA Base Carrier according Table 2.
- PCI Express 4 lane over cable **upstream port**, compliant with v1.x., operating as a downstream system using ATCA Base carrier with a PCIe bay. The PCIe lanes are mapped on ATCA Base Carrier according Table 3.
- PCI Express 4 lane over cable **downstream port**, compliant with v1.x., operating as a upstream system using ATCA Base carrier with a PCIe bay. The PCIe lanes are mapped on ATCA Base Carrier according Table 4.
- Two Gigabit Ethernet ports that are mapped on ARTM connector according Table 5.
- Three General purpose Optical interfaces using SFP (Small form-factor pluggable) connector. These ports are mapped on ARTM connector according Table 6.
- External timing and trigger features connector.
- The ARTM provides features for control and status of on-board devices that are mapped on the ARTM, according tables referenced above.

<sup>[1]</sup> AdvancedTCA Rear Transition Module for Physics. PICMG<sup>®</sup> 3.8, RC1.0f from 2 July 2011.

<sup>[2]</sup> AdvancedTCA<sup>®</sup> Base Specification, PICMG<sup>®</sup> 3.0, Revision 3.0, PCI Industrial Computer Manufacturers Group. March 24, 2008.

### User Manual

View the [User Manual](#) of this board.