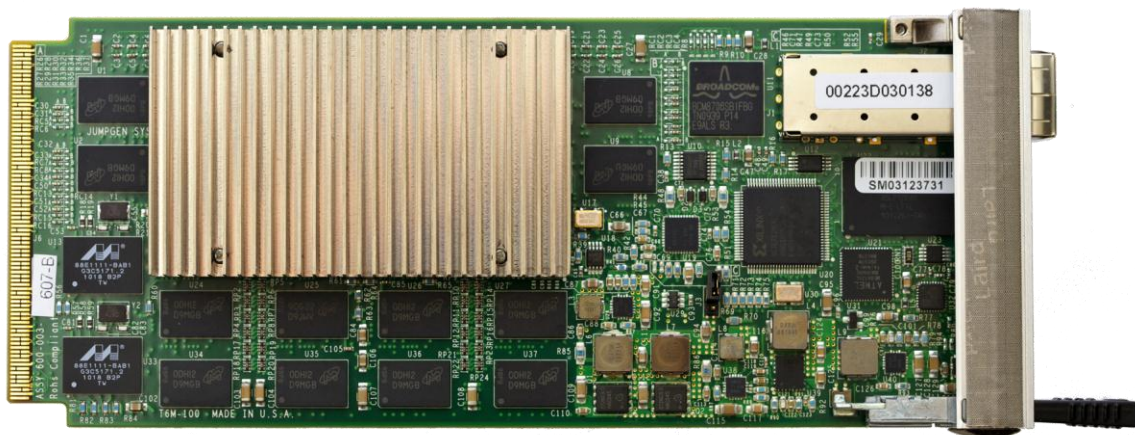




## Product Brief TPM-100 Processor Card

Rev 0.7



### Order Code:

900-003-614	Tilera TilePro AMC Processor Card with 866 MHz CPU, 2G DDR2, 4GB SSD, SFP+, X1 Backplane, mid size panel
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## Summary:

The JumpGen Systems TPM-100 Tileria 64-core Processor Card is a high-performance processor AdvancedMC™ (PrAMC) card designed for use in ATCA or MicroTCA systems. The TPM-100 is compliant with PICMG AMC.0 Revision 2.0 Mid-Size or Full-Size form factor standards. Featuring the Tileria® TILE64™ processor offering 64 general purpose cores running at 866MHz and over 20Gbps of full-duplex I/O, the TPM-100 has 2GB of 4-channel 64-bit wide DDR2 memory running at 800 MHz.

The TPM-100 is suitable for general processing, network security, network infrastructure, packet inspection, digital multimedia, video processing, signal processing and wireless infrastructure applications.

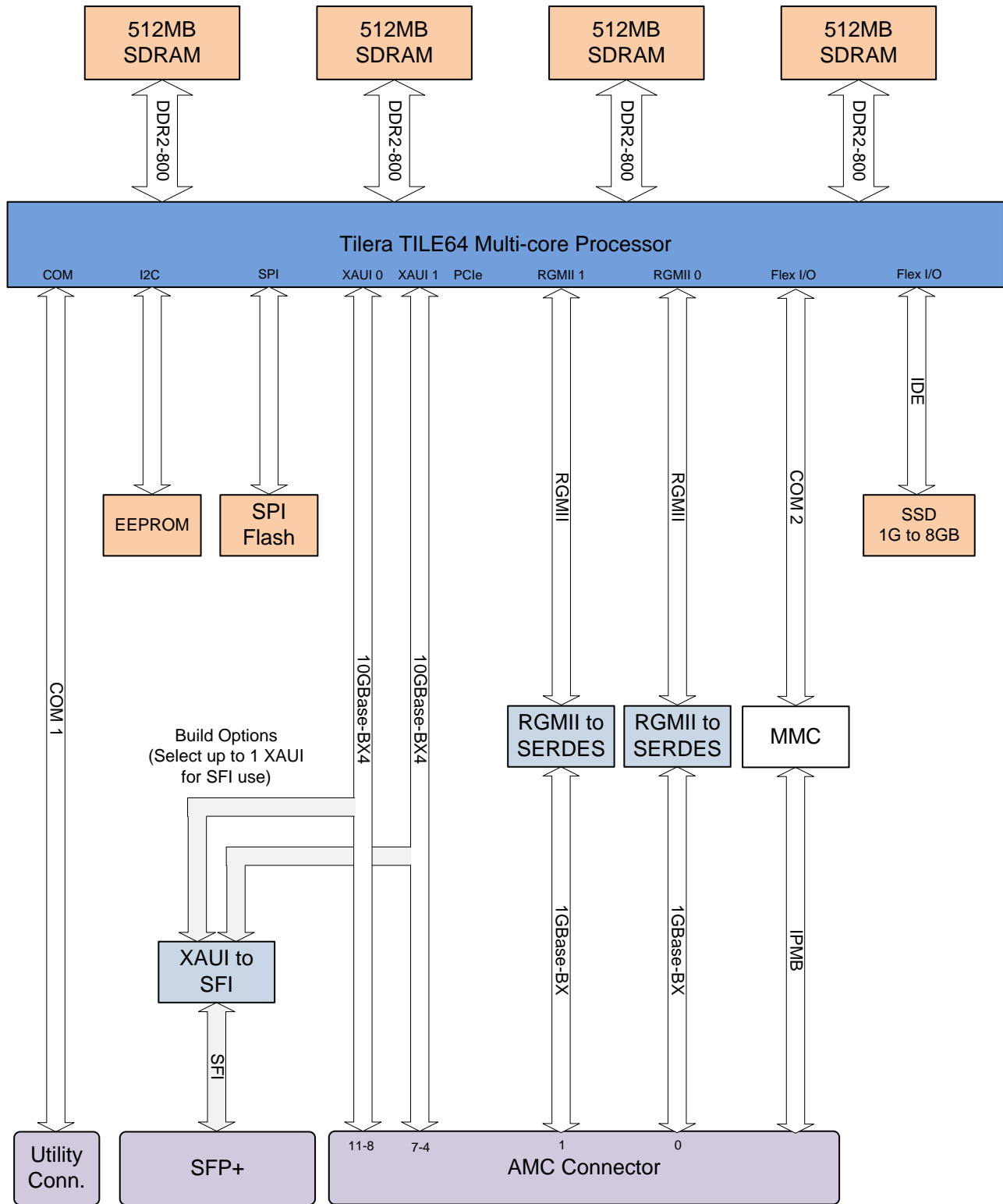
The TPM-100 is available in three I/O configuration options:

1. AMC.2 Type 6 Dual 10GigE to the backplane
2. Tile64 Port 1 to SFP+ on the front panel, Port 0 to backplane lanes 8-11
3. Tile64 Port 0 to SFP+ on the front panel, Port 1 to backplane lanes 4-7

## Features:

Central Processing Units (CPUs)	<p>Tileria TILE64 processor</p> <ul style="list-style-type: none"> <li>• 64 general purpose RISC-based cores running at 866MHz</li> <li>• 2GB of DDR2 memory running at 800MHz</li> <li>• 2 10Gbps XAUI interfaces</li> <li>• 2 1Gbps interfaces</li> <li>• Supports SMP LINUX and has a standard C/C++ tools set</li> </ul>
I/O Capabilities	<p>Dual 10G Connections, configurable as:</p> <ul style="list-style-type: none"> <li>• AMC.2 Type 6, Dual 10GigE (Lanes 4-7, 8-11) or</li> <li>• Front-panel SFP+ module bay (either TILE64 XAUI interface)</li> </ul> <p>AMC.2 Dual 1000Base-BX Ports configured as Type E2 (Lanes 0, 1)</p> <p>Serial Protocols</p> <ul style="list-style-type: none"> <li>• RS-232 on Front Panel (RJ-12)</li> </ul>
Mass Storage	1-8 GB Solid State Drive (SSD)
Firmware Boot Options	<p>Network boot (GigE or 10GigE ports)</p> <p>SSD boot</p>
Mechanical	Standard AMC Full-Size or Mid-Size form factor
Environmental	<p>Operating temperature range: 0 to 55 °C</p> <p>Humidity: 0 to 95% (non-condensing)</p> <p>Typical Power &lt; 40W, Worst-case Power consumption: 48W</p>
Regulatory	<p>Designed and manufactured to meet the following requirements:</p> <p>FCC Class A / CE / IEC 60950 / NEBS Level 3</p> <p>Company will get certifications as required to meet specific customer requirements</p>

# Block Diagram:



Front Panel