



**Product Brief**  
**PRM-120 Processor Card**

**Rev 0.6**

## Summary:

The JumpGen Systems PRM-120 Processor Card is a high-performance processor AdvancedMC™ (PrAMC) card designed for use in ATCA or MicroTCA systems. The PRM-120 is compliant with PICMG AMC.0 Revision 2.0 Mid-Size or Full-Size form factor standards. Featuring the latest 32nm Intel® Core® i7 processor and Intel Ibex Peak PCH, the PRM-120 can be delivered with up to 8GB of 72-bit wide DDR3 ECC memory running at 1066 MHz and 1-8 GB of onboard bootable SSD.

## Features:

Central Processing Units (CPUs)	Intel® Core® i7 32nm CPU <ul style="list-style-type: none"> <li>• Up to 8GB of DDR3 memory w/ ECC running up to 1066MHz</li> <li>• Bus width of x72</li> </ul>
I/O Capabilities	AMC.3 Dual SATA channels (Lanes 2, 3) AMC.2 Type 6, Dual 10GigE (Lanes 4-7, 8-11) AMC.2 Dual 1000Base-BX Ports configured as Type E2 (Lanes 0, 1) 10/100/1000Base-T Port on Front Panel Serial Protocols <ul style="list-style-type: none"> <li>• USB on Front Panel</li> <li>• RS-232 on Front Panel</li> </ul>
Mass Storage	1-8 GB Solid State Drive (SSD)
BIOS support	PXE boot (GigE or 10GigE ports) SATA boot (off-board devices) SSD boot USB boot (off-board devices)
Mechanical	Standard AMC Full-Size or Mid-Size form factor
Environmental	Operating temperature range: 0 to 55 °C Humidity: 0 to 95% (non-condensing) Typical power consumption: 25-45W Worst-case power consumption: 32-50W

## PRM-120 Intel® Processor Options:

Processor Number	# of Cores	Core (GHz)	L2 Cache (KB)	L3 Cache (MB)	TDP (Watt)	Process
i7-620LE	2	2.0	512	4	25	32nm
i7-620UE	2	1.067	512	4	18	32nm
i5-520UE	2	1.067	512	3	18	32nm

Other CPU options are available. Contact [sales@jumpgen.com](mailto:sales@jumpgen.com) for more options.

### Block Diagram:

