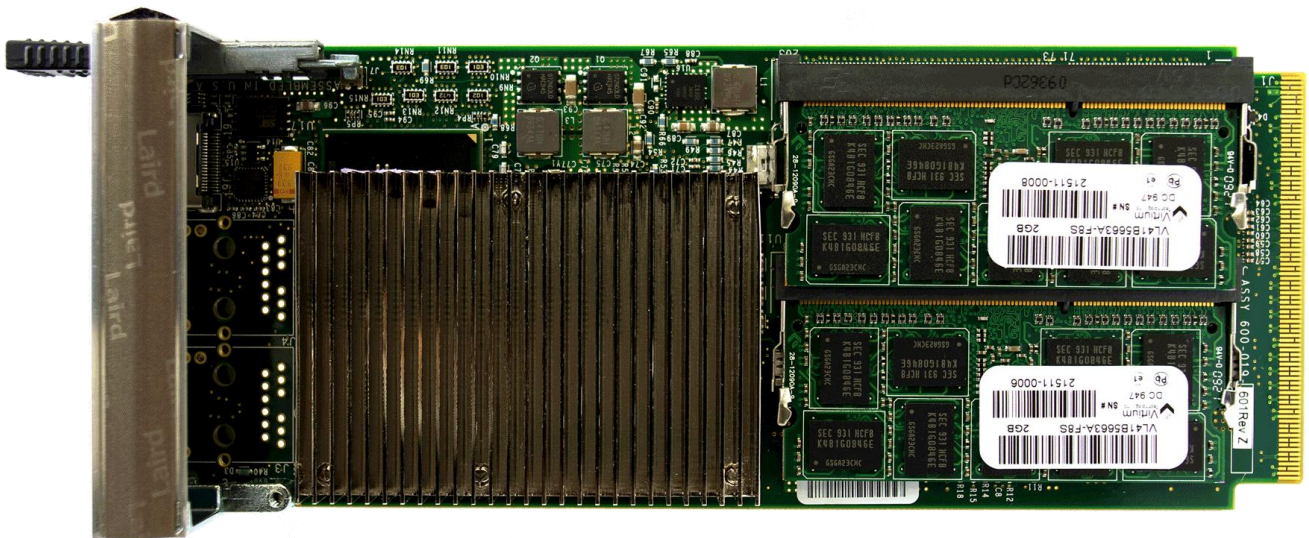


JumpGen SYSTEMS

Product Brief PRM-121 Processor Card

Rev 0.7



Order Code:

| | |
|-------------|--|
| 900-019-601 | PRM-121 Intel Core i7 AMC Processor card with 2.0GHz CPU, 4GB DDR3, 4GB SSD, 2 Front Panel Enet, Full Size Front Panel, PCIe to Backplane, Backplane Clock Input |
| 900-019-603 | PRM-121 Intel Core i7 AMC Processor card with 2.0GHz CPU, 8GB DDR3, 4GB SSD, 2 Front Panel Enet, Full Size Front Panel, PCIe to Backplane, Backplane Clock Input |

Summary:

The JumpGen Systems PRM-121 Processor Card is a high-performance processor AdvancedMC™ (PrAMC) card designed for use in ATCA or MicroTCA systems. The PRM-121 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-121 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"> Up to 8GB of DDR3 memory w/ ECC running up to 1066MHz Dual channel, x72 bus width |
| I/O Capabilities | AMC.3 Dual SATA channels (Lanes 2, 3) AMC.1 Type 4, PCIe x4 (Lanes 4-7) <ul style="list-style-type: none"> AMC.1 R1.0 and R2.0 compatible Non-PCIe configuration (no FCLKA) available AMC.2 Dual 1000Base-BX Ports configured as Type E2 (Lanes 0, 1) Dual 10/100/1000Base-T Port on Front Panel Serial Protocols <ul style="list-style-type: none"> USB on Front Panel RS-232 on Front Panel |
| Mass Storage | 1-8 GB Solid State Drive (SSD) |
| BIOS support | PXE boot (GigE 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 |
| Regulatory | Designed and manufactured to meet the following requirements: FCC Class A / CE / IEC 60950 / NEBS Level 3 Company will get certifications as required to meet specific customer requirements |

PRM-121 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 for more options.

Block Diagram:

