



Product Brief
PRC-100 Processor Card

Rev 0.3

Summary:

The JumpGen Systems PRC-100 Processor Card is a high-performance processor CompactPCI (cPCI) card designed for use in CompactPCI-compliant systems. The PRC-100 is compliant with PICMG 2.0 and 2.16 cPCI standards. Featuring the latest 32nm Intel® Core® i7 processor and Intel QM57 PCH, the PRC-100 can be delivered with up to 8GB of 72-bit wide DDR3 ECC memory running at 1066 MHz and multiple sizes of modular SlimSATA 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	PICMG 2.16 Dual 10/100/1000Base-T Ports Dual 10/100/1000Base-T RJ-45 Ports on Front Panel Quad 1000Base-X SFP Ports on Front Panel Serial Protocols <ul style="list-style-type: none"> • USB on Front Panel • RS-232 on Front Panel • RS-232 to RTM
Mass Storage	Removeable SlimSATA Solid State Drive (SSD)
BIOS support	PXE boot SlimSATA SSD boot USB boot (off-board devices)
Mechanical	Standard CompactPCI (cPCI) single-slot form factor
Environmental	Operating temperature range: 0 to 55 °C Humidity: 0 to 95% (non-condensing) Typical power consumption: 27-47W Worst-case power consumption: 34-53W
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

Block Diagram:

