



Product Brief
PRM-110 Processor Card

Rev 0.4

Summary:

The JumpGen Systems PRM-110 Processor Card is an entry level, cost-effective processor AdvancedMC™ (PrAMC) card designed for use in ATCA or MicroTCA systems. The PRM-110 is compliant with PICMG AMC.0 Revision 2.0 Mid-Size or Full-Size form factor standards. Featuring the Intel® EP80579 Integrated Processor with Intel® QuickAssist Technology and up to 1.2GHz clock rate, the PRM-110 can be delivered with up to 4GB of 72-bit wide DDR2 ECC memory running up to 800 MHz and 1-8 GB of onboard bootable SSD. The EP80579 is the first in a series of breakthrough system on-a-chip (SOC) Intel® processors with software supporting Lookaside or FastPath Acceleration Models for security applications.

Features:

Central Processing Units (CPUs)	Intel® EP80579 Integrated Processor (SoC) with 256KB L2 Cache <ul style="list-style-type: none"> • 600 MHz, 1.066 GHz or 1.2 GHz • Available with Intel® QuickAssist Technology • Up to 4GB of DDR2 memory w/ ECC running up to 800 MHz • Bus width of x72
I/O Capabilities	AMC.1 PCI Express x4 Interface (AMC.1, Type 4) AMC.2 Dual 1000Base-BX Ports configured as Type E2 (Lanes 0, 1) AMC.3 Dual SATA channels (Lanes 2, 3) Dual 10/100/1000Base-T Ports on Front Panel USB and RS-232 on Front Panel
Mass Storage	Optional 1-8 GB Solid State Drive (SSD)
BIOS support	SATA boot SSD boot PXE boot USB boot (off-board devices) Serial Console redirection
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: 22-30W Worst-case power consumption: 35W

PRM-110 Intel® Processor Options:

Processor Number	# of Cores	Core (MHz)	DDR2 Memory (MHz)	TDP (Watt)	QuickAssist
NU80579EZ009C	1	1200	400/533/667/800	19	No
NU80579EZ004C	1	1066	400/533/667/800	18	No
NU80579EZ600C	1	600	400/533/667	11	No
NU80579ED009C	1	1200	400/533/667/800	21	Yes
NU80579ED004C	1	1066	400/533/667/800	20	Yes
NU80579EB600C	1	600	400/533/667	13	Yes

Block Diagram:

