

Emerson Network Power Embedded Computing Freescale Alliance Partner



Emerson Network Power is a leading provider of communications technology for wireless, switching, signaling, optical networking and other telecom infrastructure applications. Emerson Network Power's WAN interfaces, CPU boards, network protocols and hardware/software subsystems, utilizing PMC, CompactPCI, AdvancedTCA® (ATCA) and custom platforms, are used in a variety of Teledatcom™ systems, including SS7 signaling systems, signaling gateways, softswitches, wireless base station controllers and DSLAMs.

Emerson Network Power Embedded Computing also is a world leader in designing and manufacturing power conversion solutions for industry-leading OEMs in communications and IT infrastructure markets.

The Power Conversion Division has a broad portfolio of power products that offers complete system solutions, ranging from custom AC/DC and DC/DC front-ends and energy systems to standard board-mounted isolated DC/DC modules, as well as non-isolated point-of-load converters.

Emerson Network Power, formerly Artesyn Communication Products, is a business unit of Emerson Electric Co., which is a public company whose common stock is traded on the New York Stock Exchange.

Emerson Network Power Embedded Computing AdvancedTCA® and AdvancedMC™ products based on processors from Freescale Semiconductor

Emerson Network Power Product	Freescale Processor	Function	Application	Form Factor	PICMG Compliance	BSP/Driver
<p>Katana®QP</p> 	<p>Single or dual MPC7448 host processor, built on Power Architecture™ technology, running at up to 1.4 GHz</p>	<p>Processing blade</p>	<p>WAN access, SS7/SIGTRAN signaling, media gateways, traffic processing, wireless base station controllers</p>	<p>ATCA®</p>	<p>PICMG 3.1 PTMC PICMG 2.15 PrPMC</p>	<p>Carrier grade Linux® OS Wind River VxWorks®</p>
<p>KAT4000</p> 	<p>MPC8548E PowerQUICC® III processor at 1.0 GHz</p>	<p>ATCA carrier</p>	<p>Control and packet processing, signaling gateways, media gateways</p>	<p>ATCA</p>	<p>PIGMG 3.1 AMC.2</p>	<p>Carrier grade Linux OS Wind River VxWorks</p>



Katana®QP

Processing blade

- Single or dual Freescale MPC7448 host processor, built on Power Architecture™ technology, at up to 1.4 GHz
- Up to 2 GB DDR SDRAM w/ECC in SO-DIMM package
- Up to 64 MB linear flash memory
- Two-way SMP architecture
- ATCA PICMG 3.1 Node
(1000Base-T interface + octal high speed Gigabit Ethernet fabric interface)
- Layer 2/3 Ethernet switch option
- Quad PMC expansion sites
- Redundant system management bus with IPM controller
- Real-time clock with supercap backup
- Wind River VxWorks® and carrier grade Linux® OS



KAT4000

AdvancedTCA carrier

- Freescale MPC8548E PowerQUICC® III processor at 1.0 GHz (optional)
- AMC carrier with up to four AMC modules
- Up to 2 GB DDR2 SDRAM (optional)
- Up to 1 GB flash memory (optional)
- Ethernet and PCI Express® switches for the AMC common options region
- Flexible modular fat pipe switch module
 - Gigabit Ethernet (GbE)
 - 10 GbE/1 GbE
- AMC connections:
 - Up to two GbE to Ports 0 and 1 in common options region
 - One PCI Express to Port 1 in common options region
 - Ports 4–7 to fat pipes switch
- Flexible modular fat pipe switch module (10 GbE/1 GbE)
- Carrier grade Linux OS

Learn More:

For more information about Freescale's ATCA/AMC reference designs and Freescale Alliance Partners for ATCA/AMC solutions, please visit www.freescale.com/atca.

For more information about Emerson Network Power Embedded Computing and these ATCA/AMC solutions, go to www.emersonembeddedcomputing.com.



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Document Number: AMCEMERSONFS
REV 1

