

RadiSys®




Freescale Third-Party Vendor

If you're known by the company you keep, RadiSys is in pretty good company—our technology powers products from the world's leading technology companies. We listen and collaborate. We get creative, then roll up our sleeves and get methodical, push the frontiers of integration, hammer out standards and end up with products that give our customers the edge they need to compete.

Using flexible, open standards-based technologies, such as AdvancedTCA® (ATCA), COM Express and OS-9 as building blocks, we make an astonishing range of embedded motherboards, rackmount servers, integrated platforms, software-rich boards and blades, network and packet processing engines, middleware and software, complete turnkey systems and more. And we can get it done faster and at a lower cost.

The first step in product development at RadiSys is listening to the customer. Our ultimate priority is delivering what the customer requested. In between, there are no rules. We use our imagination to come up with ingenious, innovative, highly effective solutions to complex problems. Then we buckle down, apply our unmatched know-how and experience and deliver unique, high-performance products our customers can rely on to make their products the best in their respective markets.

RadiSys AdvancedTCA® and AdvancedMC™ products based on processors from Freescale Semiconductor

| RadiSys Product | Freescale Processor | Function | Application | Form Factor | PICMG Compliance | BSP/Driver |
|---|--|--|--|-----------------------------|--------------------------------------|-----------------|
| Promentum ATCA-1200  | MPC8548E PowerQUICC® III processor at up to 1.3 GHz | ATCA carrier | Ideal platform for an application specific blade | ATCA® | PIGMG 3.0 AMC.1 AMC.2 AMC.3 | Consult RadiSys |
| Promentum AMC-8202  | MPC8641D dual core e600 processor, built on Power Architecture™ technology, with each core operating up to 1.5 GHz | Packet processor with SAS controller | Media gateways, radio network controllers | AMC™ single width, mid size | AMC.1 AMC.2 AMC.3 | Consult RadiSys |
| Promentum ATCA-9100  | MPC8548E PowerQUICC III processor at up to 1.3 GHz 20 x MSC8144 quad-core DSPs (max.) on two AMCs | ATCA media resource module and DSP blade | Media gateways, radio network controllers | ATCA | PIGMG 3.0/3.1 (Option 9, Revision 2) | Consult RadiSys |



Promentum ATCA-9100

ATCA media resource module and DSP blade

- Hosts up to 20 quad-core Freescale MSC8144 DSPs, built on StarCore® technology, on two mezzanine cards
 - 256 MB of per DSP external DDR2 memory
- Freescale MPC8548E PowerQUICC® III communication processor
 - 256 MB program flash
 - 1 GB of optional application flash and a miniDIMM socket supporting up to 1 GB DDR2 SDRAM
- Single slot PICMG 3.0/3.1 (option 9) compliant
- On-board L2 Gigabit Ethernet (GbE) switch provides dedicated per DSP connectivity to ATCA base interface
- On-board L2 10 GbE/GbE switch provides dedicated per DSP 1 GbE connectivity to 10 GbE ATCA fabric



PROMENTUM AMC-8202

MPC8641D AdvancedMC™ (AMC)

- Freescale MPC8641D dual core e600 processor, built on Power Architecture™ technology, with each core operating up to 1.5 GHz
- Up to 2 GB ECC DDR2 SDRAM
- 64 MB boot flash memory
- SAS controller (8202 only)
- 4 x PCI Express® (AMC.1)
- 2 x 1 GbE (AMC.2)
- 2 x SAS Ports (AMC.3)
- PMI managed and hot-swappable for high-availability applications



PROMENTUM ATCA-1200

ATCA managed quad-AMC carrier blade

- Freescale MPC8548E PowerQUICC III communication processor at up to 1.3 GHz
- Up to 2 GB DDR2 SDRAM
- Redundant pair of 64 MB boot flash memory
- Supports 4 x single mid-size AMCs or 2 x double mid-size AMCs or a combination of both
- 2 x 10 GbE PICMG 3.1 opt.9 or 2 x 4 x 1 GbE PICMG 3.1 opt.3 to the ATCA fabric interface
- AMC.1, AMC.2 and AMC.3 connection
 - GbE to AMC fabric Ports 0 and 1 and opt. 14, 15 and 16
 - PCI Express to Ports 4 and 5, SAS to AMC fabric Ports 2 and 3

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.