

MPC8548E development platform

(With Type-A carrier for ATCA/MicroTCA chassis)

The development system consists of MPC8548E processor card (MPC8548EPC) and Type-A carrier (PQCBA). It will help developer quickly and simply set up the hardware platform where developer can promptly design and test the application software directly, and then reduce the design cycle and fasten time to market. Type-A carrier (also called as Advanced Mezzanine Card) is a standard card architectures established by PICMG and used in ATCA chassis. AMC card is the minimum module which can be plugged into the AdvancedTCA chassis, and support plug and play and front panel plugging. Whether used in AdvancedTCA, MicroTCA, or proprietary systems, AMC card will be the next generation of telecommunications equipment in the smallest FRU (field replaceable components). Type-A carrier provides Gigabit Ethernet port, Serial RapidIO and PCI-Express. With the development platform, we'll supply Linux BSP for the developer, including U-boot, Linux Kernel and drivers codes of the interfaces on the board. Meanwhile, the developer will get the design file of the carrier and the schematics in PDF of processor card.

These PowerQUICC III processors (PQ38), the MPC8548E, MPC8547E, MPC8545E and MP8543E, are designed to deliver Gigahertz-plus communications processing performance and advanced features with the exceptional integration and high-speed connectivity required by enterprise networking, telecom transmission and switching, 3G wireless infrastructure, storage and high-end imaging markets.

Pictures



MT8548E-A



UTCA8548E

MT8548E-A features:

- **CPU:** MPC8548E e500 core, speed up to 1.3GHz each core; performance: 3065MIPS at 1333 MHz
- **Memory:**
 - 256Mbytes DDR2
 - Up to 16MBytes flash memory
- **Interface:**
 - Two 10/100/1000 BaseT Ethernet interface
 - X8 SERDES interface for Serial RapidIO and PCI Express
 - One RS-232 Serial Port
- **General for MPC8548EPC**
 - COP interface

- 5V fan connector
- 3.3V and 5V power supplied from a carrier board
- Flexible POR configuration by different dip switch setting
- 10-layer PCB routing
- Dimension: 5.79 inch x 2.79 inch

• **General for Type-A carrier:**

- 12 V and 5 V power supplies from a 4-pin connector (optional Standalone mode)
- 6-layer PCB routing
- Dimension: 7.1inch x 2.9 inch

Order information

Model	Product Description	Remark
MT8548E-A	MPC8548E development platform with Type-A carrier	
MPC8548EPC	MPC8548E processor card	Optional
UTCA8548E	MicroTCA chassis with two sets of MT8548E-A	Optional
USB TAP	PowerPC in-circuit emulator supporting PQ I, II, II Pro and III family processors	Optional
JediView for PowerPC	JediView for PowerPC Integrated Development Environment software	Optional