MPC8541E development platform

(With Type-S carrier for network attached storage application)

The development system consists of MPC8541E processor card (MPC8541EPC) and Type-S carrier (PQCBS). 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. Combined with MPC8541E processor card, the Type-S carrier can be used for network attached storage application. 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.

Freescale's MPC8541E device integrates a high-performance e500 core built on Power Architecture technology. This innovative architecture is designed to reduce power consumption and offer a more balanced approach to processing than traditional processor architectures. The MPC8541E device's high level of integration helps simplify board design and enhances system-level bandwidth and performance. MPC8541E processor is designed for the applications, such as Telecommunications switching equipment, integrated access devices, Metro area networks, VPN and firewall routers, Branch office and enterprise routers.

MT8541E-S features:

• **CPU:** MPC8541E e500 core, speed up to 833MHz; Performance: 1850MIPS@833 MHz

• **Memory:**

— 256Mbytes DDR1

— Up to 16Mbytes flash memory, two 8Mbytes banks

• **Interface:**

— Four SATA connectors

— One 10/100/1000 BaseT Ethernet interfaces

— 4-port 10/100 BaseT Ethernet switch

— One PCI slots

— Two miniPCI slot

— One RS-232 Serial Port

• **General for MPC8541EPC:**

— 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-S carrier:**

— 12 V and 5 V power supplies from a 4-pin connector (optional Standalone mode)

— 6-layer PCB routing

— Dimension: 6.7 inch x 6.7 inch

Order Information

Model	Product Description	Remark
MT8541E-S	MPC8541E development platform with Type-S carrier	
MPC8541EPC	MPC8541E processor card	Optional
USB TAP	USB TAP in-circuit emulator for PowerPC	Optional
JediView for PowerPC	JediView for PowerPC IDE software	Optional