MICETEK

MPC8560 development platform

(With Type-N carrier for network communication application)

The development system consists of MPC8560 processor card (MPC8560PC) and Type-N carrier (PQCBN). 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 MPC8560 processor card, the Type-N carrier can be used for network communication 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 leading PowerQUICC III architecture integrates two processing blocks. One block is a high-performance embedded e500 core. With 256 KB of Level 2 cache, the e500 core is built on Power Architecture technology and provides unprecedented levels of hardware and software debugging support. The second block is the Communications Processor Module (CPM). The CPM of the PowerQUICC III can support three fast serial communications controllers (FCCs), two multichannel controllers (MCCs), four serial communications controllers (SCCs), one serial peripheral interface (SPI), and one I^2C interface. The PowerQUICC III also offers two integrated 10/100/1000 Ethernet controllers, a DDR SDRAM memory controller, a 64-bit PCI-X/PCI controller, and a RapidIO™ interconnect. This high level of integration helps simplify board design and offers significant bandwidth and performance for high-end control-plane and data-plane applications.

MT8560-N features:

• **CPU:** MPC8560 e500 core, speed up to 833MHz; Performance: 1850MIPS@833 MHz

• **Memory:**

— 256Mbytes DDR2

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

• **Interface:**

— Two 10/100/1000 BaseT Ethernet interfaces

— One 10/100 BaseT Ethernet interface

— Two PCI slots

— One RS-232 Serial Port

• **General for MPC8560PC:**

— 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-N carrier:**

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

— 6-layer PCB routing

— Dimension: 8.7 inch x 5.8 inch

Order Information

Model	Product Description	Remark
MT8560-N	MPC8560 development platform with Type-N carrier	
MPC8560PC	MPC8560 processor card	Optional
USB TAP	USB TAP in-circuit emulator for PowerPC	Optional
JediView for PowerPC	JediView for PowerPC IDE software	Optional