

***miriac*TM M P X 2020**

Product Description

The MPX2020 CPU Module is the first of a series of QorIQTM based products. The P2020 combines dual Power ArchitectureTM e500v2 processor cores with system logic required for networking, wireless infrastructure and telecommunications applications.

The P2020 offers an excellent combination of protocol and interface support including dual high-performance CPU cores, a DDR2/DDR3 memory controller, three enhanced triple speed Ethernet controllers with SGMII support, two Serial RapidIO[®] interfaces with a messaging unit, a secure digital interface, a USB 2.0 interface, and three PCI Express controllers. The device also supports IEEE Std 1588TM precision time protocol for network synchronization over Ethernet.

Freescals QorIQ[®] technology is a perfect fit for any application requiring very high performance but low power on a small form factor module.

The MPX 2020 forms part of the MPX standard with a tiny 66x77 mm² footprint. The new connector technology allows mounting in both directions and stacking of modules with various interface boards. Versions for extended temperature (- 40° ..+85° C) are available.

The MPX 2020 features a rugged design with the aim to withstand extreme and harsh environment in embedded applications.

Overview:

- **Freescal QorIQ P2020 @1.2Ghz**
- **up to 2 GB soldered DDR2 memory**
- **up to 512 MB NAND Flash**
- **three 10/100/1000 Mbps Ethernet controllers (eTSECs) with IEEE[®] 1588 support**
- **USB 2.0 , SPI, GPIO, I²C**
- **High speed interfaces supporting various multiplexing options**
 - **Four SerDes to 3.125 GHz multiplexed across controllers**
 - **Three PCI Express interfaces**
 - **Two Serial Rapid I/O interfaces**
 - **Two SGMII interfaces**
- **two 208 Pin Zero Force Connectors, that make all I/O and bus signals available to carrier board**

MPX2020 picture (actual size)



Software-Support:

Linux; VxWorks, OS-9, QNX; others on request

Order Information:

Order Nr.	Ordertext	Status
837601	MPX 2020 Miriac Module, P2020@1.2 Ghz, 2 GB DDR2, 512 MB Flash, ext.temp.	Q2/10

StI: 'Stock Item' – normally available ex stock

BoO: Build on Order – will be built after order received

You need a different variant? – No problem! Just contact us.

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