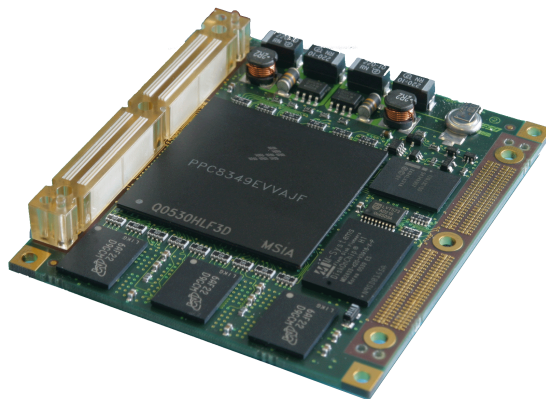


miriac™ MPX5200G

Product Description

The MPX5200G module is based on the MPX5200 module and adds a graphic extensions. As a processor the highly integrated Freescale MPC5200B is used which provides multiple interfaces like PCI, USB, Mb Ethernets, CAN, serial ,ATA and an integrated DDR memory controller.

As a graphic controller the FME MB86276 (Lime) is used. Besides two RGB digital output channels with a display resolution of 1.024 x 768 pixels, this controller contains many accelerated 2D functions and video input. The MPX5200 forms part of the new MPX standard with a tiny 95x77 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.



Overview:

- **MPC5200B with e300 Power PC Core**
- **Integrated DDR Memory Controller**
- **up to 128MB DDR SDRAM**
- **up to 32MB Flash**
- **DiscOnChip NAND-Flash (option)**
- **2MB SRAM (option)**
- **RTC, Watchdog, Reset Generator**
- **Single 3,3V Supply**
- **32bit/ 66Mhz PCI Port**
- **ATA Interface**
- **10/100 Ethernet**
- **High Speed Serial Ports**

MICROSYSTEMS

- **2x USB 1.1 Ports**
- **2x I²C (Master or Slave)**
- **Serial Peripheral Interface (SPI)**
- **General Purpose Parallel I/O (GPIO)**
- **optional -40° to +85°C**

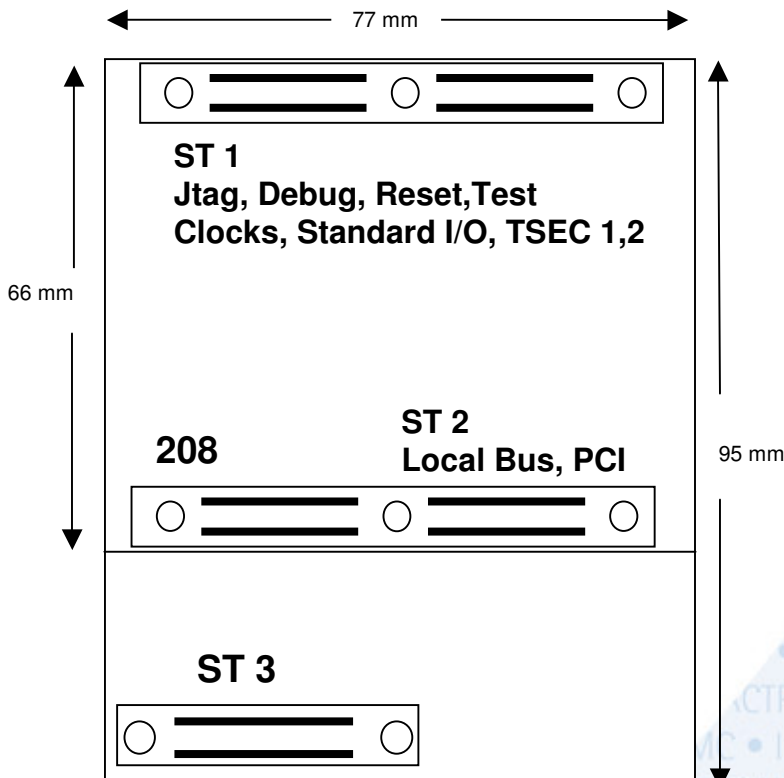
Graphic features:

- **Display resolutions up to 1280x768**
- **6 layers of overlay display (windows)**
- **Alpha Plane**
- **Digital Video input (various formats)**
- **Video Scaler (up/down scaling)**
- **I2C interface**
- **Includes various kinds of 2D graphic acceleration functions**
- **Built-in alpha blending, anti-aliasing and chroma-keying**
- **External SDRAM or FCRAM interface @ 133MHz for up to 64MB graphic memory**

Extended MPX Form Factor 95x77mm² allows mounting in both directions and stacking.

Connectors:

- two 208 Pin elastomeric connectors (2 rows)**
- one 104 Pin elastomeric connector (2 rows)**



Module Layout

MicroS

Software-Support:

VxWorks and Linux ; others on request

Order Information:

Order-No.	Description	Status
831001	MPX5200G MIRIAC MODULE MPC5200B Graphics 64MB DDR 16MB FL. 128MB DoC 2MB SRAM	Q2/06
831002	MPX5200G MIRIAC MODULE MPC5200B Graphics 64MB DDR 16MB FL. 128MB DoC 2MB SR. EXT	Q2/06
830901	CRX01 Carrier Board for MPX Modules	Q2/06

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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