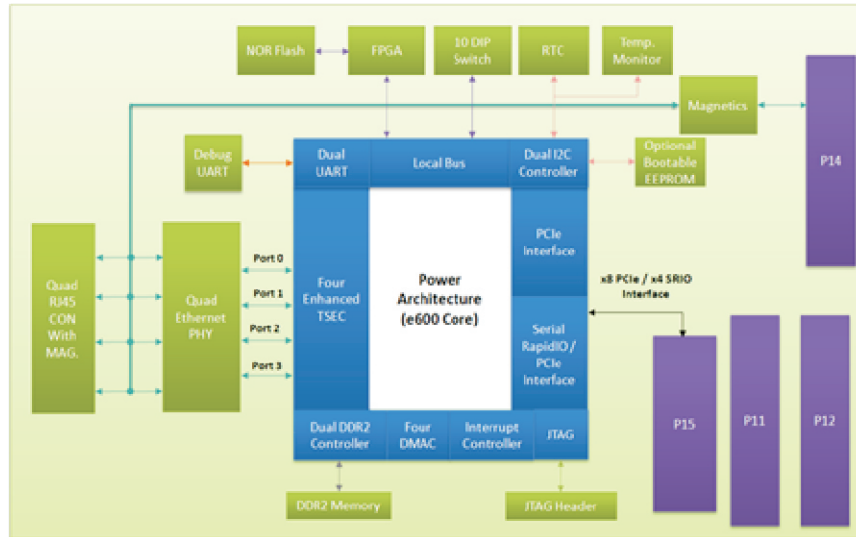


**iW-RainboW-G9** is Freescale's Power Architecture® technology processor MPC8640 based module with the PMC/XMC Industry standard form factor. With its high speed interfaces, it is suitable for embedded networking and storage applications in aerospace & defense domains.

### BLOCK DIAGRAM



### SPECIFICATIONS

<b>Processor</b>	Freescale MPC8640 Single Core @ 1 Ghz
<b>Memory</b>	Dual channel DDR2 with ECC (512MB - 2GB) 128MB NOR flash 16Kb bootable I2C based EEPROM
<b>Giga-bit Ethernet</b>	4 x Giga-bit, RJ45 connector on the Front panel
<b>XMC P15 Interface</b>	x8 PCI-e Lane or 4x Serial Rapid IO bus
<b>Debug Ports</b>	Processor COP/JTAG debug port RS232 debug console
<b>Temperature Sensor</b>	I2C based Temperature sensor and monitor
<b>RTC</b>	I2C based RTC Timekeeper
<b>Physical Characteristics</b>	Single Width XMC/PMC form factor (149mm x 79mm)
<b>Software support</b>	U-Boot
<b>Operating temperature</b>	0 to 55° C
<b>Factory built Optional Processor Configuration</b>	MPC8640 Single Core @ 1/1.25 GHz MPC8640D Dual Core @ 1/1.25 GHz MPC8641 Single Core @ 1/1.25/1.33 Ghz
<b>Factory built Optional Ethernet Interface</b>	Four Giga-bit RJ45 connector on the Front panel Four Giga-bit Ethernet interface via P14 IO connector

### APPLICATIONS:

- ◆ Embedded networking & storage
- ◆ General computing
- ◆ Fast industrial control & automation
- ◆ Aerospace and Defense

#### About Us:

iWave Systems Technologies is an embedded hardware and software turnkey design services company, focused on providing integrated solutions for developing innovative products and systems in the areas of Communication, Multimedia, Consumer electronics, Industrial and Automotive. With its 10 year expertise combined with its current 130 strong team, iWave is poised to become an Independent design house for the high tech electronic systems.

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