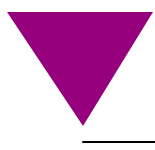


IBM PowerPC 603e/EM603e Embedded Processors

PowerPC™

	603e/EM603e	603e/EM603e
Frequency	100MHz	200MHz
Technology (CMOS)	0.5µm (.46µm L _{eff})	0.35µm (.25µm L _{eff})
Performance • SPECint92 • SPECint95 • SPECfp95 • Dhrystone 2.1 MIPS	120 - - 167 (EM603e)	- 6.4 4.1 (603e) 334 (EM603e)
Typical Power (est.)	3.2W	4.0W
Voltage (logic / I/O)	3.3 V ±5%	2.5 V / 3.3 V ±5%
Case Temp. Range	0°C to 105°C	0°C to 105°C
Signal I/Os	165	165
I-Cache / D-Cache	16K / 16K	16K / 16K
CPU Bus Ratio	1x through 4x (@ .5x interval)	2x through 6x (@ .5x interval)
Bus Interface	64- & 32-bit modes	64- & 32-bit modes
Execution Units	Integer Float (603e) Branch Load/Store System	Integer Float (603e) Branch Load/Store System
Package (mm x mm)	255-pin CBGA 240-pin PQFP	255-pin CBGA
Die Size	98 mm ²	79 mm ²



IBM PowerPC™ 740/750/750CX/750CXe

Microprocessors



	750 (PID8t)	740 (PID8p)	750 (PID8p)	750CX	750CXe
Frequency	200/233/266MHz	300/333/366/400/ 466/500MHz	300/333/366/400/ 466/500MHz	366/400/466MHz	400/466/500/533/ 600/667MHz
Technology (CMOS)	.25µm (.18L _{eff})	.22µm (.12L _{eff})	.22µm (.12L _{eff})	.18µm (.097L _{eff})	.18µm (.097L _{eff})
Performance • SPECint95 • SPECfp95 • Dhrystone 2.1 MIPS	266MHz 12.4 8.4 617	400MHz 16.0 9.2 928	400MHz 18.8 12.2 928	400MHz 17.4 11.7 928	600MHz 25.6 16.3 1392
Typical Power (est.)	5.9W	3.7W	4.1W	3.5W	6.0W
Voltage (logic / I/O)	2.5V / 3.3V	3.7V / 3.3V	2.0 - 2.1V / 3.3V	1.8V / 1.8 or 2.5V	1.8V / 1.8 or 2.5V
Case Temp. Range	0°C to 105°C	0°C to 105°C	0°C to 105°C	0°C to 105°C	0°C to 105°C
Signal I/Os	267	240	267	139	139
I-Cache / D-Cache	32K / 32K	32K / 32K	32K / 32K	32K / 32K	32K / 32K
Internal L2 Cache	-	-	-	256K	256K
CPU Bus Ratio	3x through 8x @.5x interval	3x through 8x @.5x interval	3x through 8x @.5x interval	2x through 8x @.5x interval, 10x	2x through 8x @.5x interval, 9x, 10x
Bus Interface	64-bit data 32-bit address	64-bit data 32-bit address	64-bit data 32-bit address	32-/64-bit data 32-bit address	32-/64-bit data 32-bit address
Execution Units	Integer (2) Float Branch Load/Store System	Integer (2) Float Branch Load/Store System	Integer (2) Float Branch Load/Store System	Integer (2) Float Branch Load/Store System	Integer (2) Float Branch Load/Store System
Package (mm x mm)	360-pin BGA (25mm x 25mm)	255-pin BGA (21mm x 21mm)	360-pin BGA (25mm x 25mm)	256-pin PBGA (27mm x 27mm)	256-pin PBGA (27mm x 27mm)