

EPIC™ CELERON® M AND PENTIUM® M PROCESSORS

DESCRIPTION

The M706R is the SECO EPIC™ with Intel® Celeron® M and Pentium® M processors. This single board computer mounts an Intel® 855GME Chipset and front side bus at 400MHz, it has an integrated 2/3D graphic controller, supporting AGP4x interface. An important feature in this module is the LVDS interface at 18bit Single and Dual Channel, supporting also 24 bit LVDS displays. The module integrates also Audio, Ultra-ATA/100 IDE interface, 1 Ethernet 10/100 BaseT, 4 USB 2.0 ports, 2 Full modem serial ports, 1 standard parallel, keyboard/mouse controllers, Real Time Clock and Watch Dog Timer.



TECHNICAL SPECIFICATIONS

■ CPU:	Intel® Celeron® M at 800MHz Intel® Celeron® M ULV 1GHz Intel® Pentium® M at 1.8 GHz
■ Chipset:	Intel® 855GME Northbridge + ICH4R Southbridge
■ DRAM:	Up to 1GB DDR400 on SO-DIMM supporting 200, 266 and 333 MHz and ECC modules
■ FSB	400 MHz
■ Graphic & Video:	2/3 D Graphic Controller, supporting AGP4x interface integrated video DDR memory up to 64 MB VGA Video Output resolutions: - 2048x1536 at 75 Hz - 1600x1200 at 85 Hz on VGA Video Output - LVDS Single or Dual Channel Video Output with max. resolution 1600x1200 at 60 Hz
■ COM Ports:	2x RS232 (+ 2x internal with one RS232/422/485 configurable)
■ USB:	4x USB 2.0 ports (+ 2x internal)
■ LPT:	Standard, EPP or ECP parallel port
■ ETHERNET:	2x 10/100 Base-T (1 Gbit optional)
■ IDE:	Ultra DMA100
■ Audio:	Codec AC'97 integrated
■ HW monitor:	- Main voltages - CPU temperature
■ 1x DVI - 1x VGA Connector - LVDS Interface	
■ 1x Compact Flash Slot	
■ 15x general GPIO Connector	
■ PC104 and PC104 Plus Expansion Socket	
■ PS/2 Keyboard and Mouse	
■ ATX Power Supply Connector	
■ Watch Dog Timer	
■ Real Time Clock	
■ TEMPERATURE, FAN SPEED AND VOLTAGE MONITORING	
■ Environment:	- Power supply voltage: +5VDC - Power consumption: TBD - Temp. Range: TBD
■ Dimensions:	115*165 mm (4.528" x 6.496")



This high performance package of Intel® was integrated in the M706R EPIC™ board with many features for the most demanding applications. So, on the fronplate there are 2 serial ports, 4 USB 2.0 ports, 1x 10/100BaseT or 1x 10/100/1000BaseT Ethernet port, 1 parallel, 1 DVI and 1 CRT connector. There is also a slot for the increasingly used Compact Flash and the possibility to use 15 GPIOs. This all, added with the possibility of PCI-104 and PC/104-Plus expansion boards, offers a very performing solution for many embedded applications

ORDERING INFORMATION

Part Number	Description
M706R-BSBA	EPIC™ CPU Intel® Pentium® M 1.8 GHz, w/ 2*ETH 10/100
M706R-BSCA	EPIC™ CPU Intel® Pentium® M 1.8 GHz, w/ 2*ETH 1Gbit
M706R-CSBA	EPIC™ CPU Intel® Celeron® M ULV 1 GHz, w/ 2*ETH 10/100
M706R-CSCA	EPIC™ CPU Intel® Celeron® M ULV 1 GHz, w/ 2*ETH 1Gbit
M706R-DSBA	EPIC™ CPU Intel® Celeron® M 800 MHz, Standard Version w/ 2*ETH 10/100 – FANLESS
M706R-DSCA	EPIC™ CPU Intel® Celeron® M 800 MHz, Standard Version w/ 2*ETH 1Gbit – FANLESS
M706R-DRAA(*)	EPIC™ CPU Intel® Celeron® M 800 MHz, Reduced Version: same as Standard Version w/ only 1 ETH 10/100, 2 USB (+2 internal), No ISA bus
M706R-DMAA(*)	EPIC™ CPU Intel® Celeron® M 800 MHz, Minimal Version: same as Standard Version w/ only 1 ETH 10/100, 2 USB (+2 internal), No ISA bus. No DVI, No Audio

(*) Minimum Order 100 pcs.