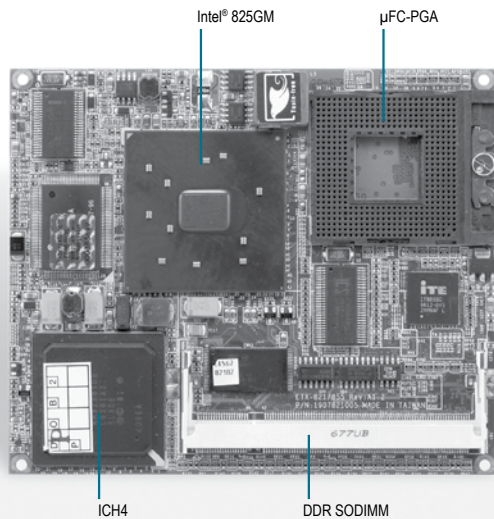


## Intel® Pentium® M/ Celeron® M Processors



### Features

- Intel® Pentium® M/ Celeron® M Processors
- DDR 200/266 Memory
- CRT/ Up to 24-bit Dual-channel LVDS LCD (Emulated)/ TV
- 10/100Base-TX Ethernet
- AC97 Audio CODEC
- +5V Operating Voltage
- ETX Form Factor



### Specifications

System	
Form Factor	ETX
Processor	Intel® Pentium® M/ Celeron® M processors with FSB 400MHz
System Memory	200-pin DDR SODIMM x 1, Max. 1GB (DDR 200/266)
Chipset	Intel® 852GM + ICH4
I/O Chipset	ITE IT8712
Ethernet	Intel® 82562ET, 10/100 Base-TX
BIOS	Award
Wake On LAN	Yes
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports power supply voltages, fan speed and temperature monitoring
Expansion Interface	32-bit PCI x 4 8-bit/16-bit ISA SMBus x 1 I2C x 1
Power Requirement	+5V DC
Power Consumption (Typical)	Celeron®-M 1.0GHz 0KB L2, DDR333 1GB +12V @ 0.31A, +5V @ 3.3A W/ TF-ECB-901A-A10
Board Size	4.5" (L) x 3.75" (W) (114 mm x 95 mm)
Gross Weight	0.66 lb (0.3 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	110,000
Display	
Chipset	Supports CRT/LCD, CRT/TV, LCD/TV Simultaneous/Dual View Display
Chipset	Intel® 852GM integrated
Memory	Shared system memory up to 64MB
Resolutions	Up to 1600 x 1200 (UXGA) for CRT Up to 1280 x 1024 (SXGA) for LCD
LCD Interface	Up to 24-bit dual-channel LVDS (Emulated)
TV-Out	Supports NTSC/PAL (Chrontel CH7009)
I/O	
Storage	PATA x 2
Serial Port	2
Parallel Port	1
USB	USB 2.0 x 4
PS/2 Port	Keyboard x 1, Mouse x 1
IrDA	One IrDA Tx/Rx header
Audio	Mic-in, Line-in, Line-out

### Packing List

- Utility CD
- ETX-821

### Ordering Information

- **TF-ETX-821-A12**  
ETX Board, Socket 478, DDR, LAN, Audio, 2COM, USB2.0, Rev. A1.2
- **TF-ETX-821-A12-01**  
ETX Board, Intel® Celeron®-M 600MHz with 512KB L2 Cache, DDR, LAN, Audio, 2COM, USB2.0, Rev. A1.2

### Optional Accessories

- **TF-ECB-901A-A10**  
ETX Carrier Board, LAN, Audio, 4 COM, USB, PCI, ISA, AT/ ATX, Rev. A1.0
- **TF-PER-A037**  
CPU Cooler, for Socket-type CPU
- **TF-PER-A038**  
CPU Cooler, for Onboard CPU
- **TF-PER-A039**  
Passive Heatsink, for Socket-type CPU
- **TF-PER-A040**  
Passive Heatsink, for Onboard CPU
- **TF-PER-A041**  
Heat Spreader Kit, for Socket-type CPU
- **TF-PER-A042**  
Heat Spreader Kit, for Onboard CPU