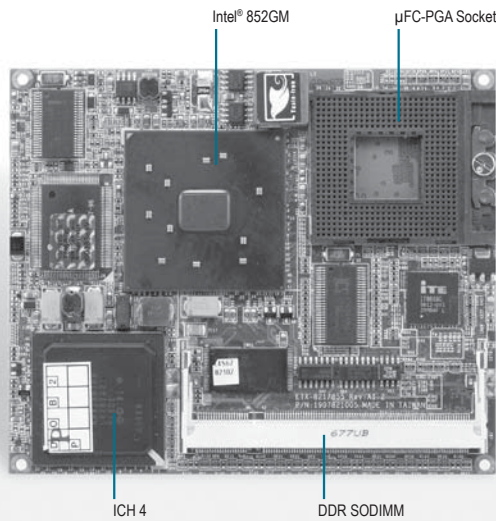


## Intel® Pentium® M/ Celeron® M Processors



### Features

- Supports Intel® Pentium® M/ Celeron® M Processors
- Intel® 852GM + ICH4 Chipset
- Supports non-ECC DDR 200/266 Memory
- Supports CRT/ LVDS/ TV
- Supports 10/100Base-TX Ethernet
- Supports AC97 Audio CODEC
- +5V Operation Voltage

### Specifications

System	
Form Factor	ETX
Processor	Intel® Pentium® M/ Celeron® M processors
System Memory	200-pin DDR SODIMM x 1, Max. 1 GB (DDR 200/266)
Chipset	Intel® 852GM + ICH4
I/O Chipset	ITE IT8712
Ethernet	Intel® 82562ET, 10/100 Base-TX
BIOS	AWARD 512KB FLASH ROM
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
Power Requirement	+5V/AT/ATX
Power Consumption (Typical)	Celeron®: 1.1GHz, DDR333 512MB 2.10 A@ +5V, 0.1 A@5VSB, 0.30 A@+3.3V
Board Size	4.5" (L) x 3.74" (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)	118,614
Display	
Supports CRT/ LCD, CRT/TV, LCD/TV Dual Simultaneous/ Dual Independent Display	
Chipset	Intel® 852GM
Memory	Shared memory up to 64MB
Resolutions	Up to 1600 x 1200 (UXGA) @ 85Hz for CRT Up to 1280 x 1024 (SXGA) for LCD
LCD Interface	Up to 18/36-bit dual channel LVDS
TV-out	Supports NTSC and PAL standard (Chrontel CH7009)
I/O	
PATA/SATA	PATA port x 2
Audio	AC97 CODEC (Realteck ALC655)
USB	USB 2.0 port x 4



### Packing List

- Quick Installation Guide
- Utility CD
- ETX-821

### Ordering Information

- TF-ETX-821-A12**  
ETX Board, Socket 478, DDR, LAN, Audio, 2 COM, 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-A004**  
Passive Heatsink, for Onboard CPU
- TF-PER-A005**  
CPU Cooler, for Onboard CPU
- TF-PER-A007**  
CPU Cooler, for Socket-type CPU
- TF-PER-A009**  
Heat Spreader Kit, for Onboard CPU
- TF-PER-A010**  
Heat Spreader Kit, for Socket-type CPU