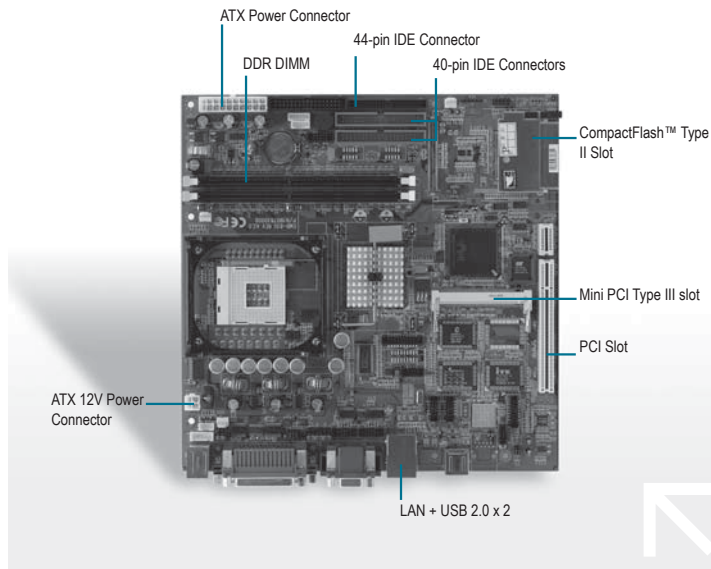


## Intel® Pentium® 4 or Celeron® Processors



## Specifications

System	
Form Factor	Micro-ATX
Processor	Socket 478-based Intel® Pentium® 4/ Celeron® processors (.13µ / .18µ ) supports up to 2.8GHz with FSB 400/533MHz
System Memory	184-pin DDR SDRAM DIMM x 2, Max. 2GB (PC-200/266/333)
Chipset	Intel® 845GV + 82801DB (ICH4)
I/O Chipset	ITE IT8712
Ethernet	Intel® 82562ET, 10/100Base-TX
BIOS	AWARD 4MB FLASH BIOS
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
Solid Storage Disk	Type II CompactFlash™ slot x 1 (Shared with second IDE)
Expansion Interface	PCI slot x 1, Type III Mini PCI slot x 1
Power Requirement	ATX, ATX12V
Power Consumption (Typical)	
Board Size	9.6"(L) x 9.6"(W) (243.8mm x 243.8mm)
Gross Weight	0.88 lb (0.4 kg)
Operating Temperature	32°F~ 140°F (0°C ~ 60°C)
Storage Temperature	
Operating Humidity	
MTBF	
Display	
Supports CRT / LCD simultaneous display Supports screen image rotation	
Chipset	Intel® 845GV + Chronitel 7017
Memory	Shared system memory up to 64MB with DVMT
Resolutions	Up to 1280x1024@32bpp colors for CRT Up to 1280x1024@24bpp colors for LCD
LCD Interface	Up to 24-bit/48-bit dual channel LVDS TFT
TV-out	Supports NTSC and PAL standard
I/O	
MIO	EIDE x 2 (UDMA100 x 1, UDMA33 x 1), Floppy Disk Drive x 1, Keyboard+Mouse x 1, RS-232 x 3, RS-232/422/485 x 1, Parallel x 1
IrDA	One IrDA Tx/Rx header
Audio	MIC-in, Line-in, Line-out/ Speaker-out. 5.1 output
USB	Two 5x2 pin headers + Type-A connectors, support up to 6 USB ports

## Features

- Supports Socket 478-based Intel® Pentium® 4 / Intel® Celeron® Processors
- 24-bit/48-bit Dual Channel LVDS TFT LCD
- AC 97 3D Surround 5.1 Channel Audio
- Supports Type II CompactFlash™
- Supports Type III Mini PCI and PCI Slots
- 4 COM / 6 USB 2.0 / TV-out Ports



## Packing List

- 1701400453**  
40-pin IDE Cable
- 1701440501**  
44-pin IDE Cable
- 1701340601**  
Floppy Disk Drive Cable
- 1701100207**  
COM Port Cable
- 1700080180**  
TV-out & S-terminal Cable
- 1700140164**  
Audio Cable
- 1709100201**  
USB Cable
- 9657666600**  
Jumper Cap
- Quick Installation Guide**
- Utility CD**
- EMB-830**

## Ordering Information

- TF-EMB-830-A20-01**  
Embedded ATX Board, Socket 478, 533 FSB, with LCD, LAN, 5.1 Audio, CF, 6 USB 2.0, 4 COM, ATX, Rev.A2.0

## Optional Accessories

- 1759200153**  
(TF) CPU Cooler Fan + Heat Sink, Socket 478, 3P, 12V, 2U Low Profile, up to P4 2.8GHz
- 1759200154**  
(TF) CPU Cooler Fan + Heat Sink, Socket 478, 3P, 12V, 1U Low Profile, up to P4 2.2GHz
- TF-PER-1100-A10**  
Riser Card for PCI, 3-slot, EMB-830, Rev.A1.0
- TF-PER-C10L-A10**  
Mini PCI 10/100 Base-TX Ethernet Module with Realtek 8100C
- TF-PER-C10L-A10-01**  
Mini PCI 10/100/1000 Base-TX Ethernet Module with Realtek 8110S
- TF-PER-C10L-A10-02**  
Mini PCI 10/100 Base-TX Ethernet Module with Intel® 82551QM
- TF-PER-C10L-A10-03**  
Mini PCI 10/100/1000 Base-TX Ethernet Module with Intel® 82541GI
- TF-PER-C20S-A10**  
Mini PCI 2-port SATA Module Rev.A1.0
- TF-PER-C30F-A10**  
Mini PCI 3-port IEEE 1394a Module
- TF-PER-V30C-A10**  
Mini PCI Single Channel Capture Module with Philips SAA7135
- TF-PER-C40C-A10**  
Mini PCI 2-port RS-232 Module Rev. A1.0
- TF-PER-C40C-A10-01**  
Mini PCI 4-port RS-232 Module Rev. A1.0