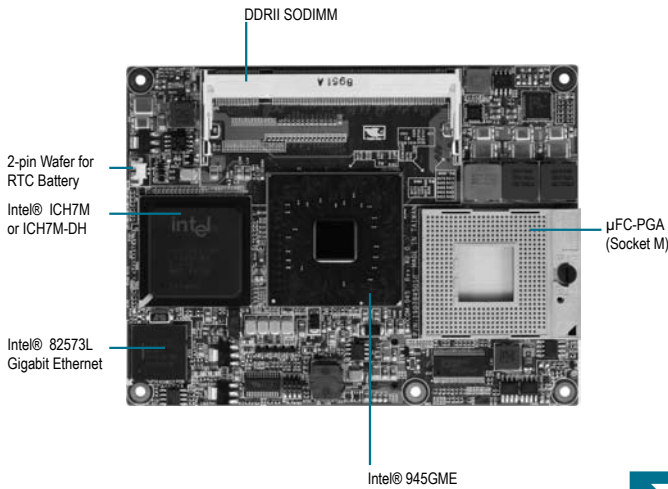


# COM-945

## COM Express CPU Module with Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M (Socket-M Based) Processors



### Features

- Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M (Socket-M Based) Processors
- Intel® 945GME + ICH7M (Or ICH7M-DH for Rev.A3.0)
- DDRII 400/533/667 Memory, Max. 2GB
- Gigabit Ethernet
- CRT, 18-bit Dual-channel LVDS LCD, TV
- High Definition Audio Interface
- PATA x 1, SATA x 2
- USB2.0 x 8
- PCI x 4, PCI-Express [x16] x 1, PCI-Express [x1] x 3 (Or x 5 for Rev.A3.0)
- Wide DC Input Range, +8.5V to +19V
- COM Express Basic Module Pin-out Type II



### Specifications

System	
Form Factor	COM Express basic module, Pin-out Type II
Processor	Intel® Core™ 2 Duo/ Core™ Duo/ Celeron® M (Socket-M based) processors
System Memory	200-pin DDRII SODIMM x 1, Max. 2GB (DDRII 400/533/667)
Chipset	Intel® 945GME + ICH7M (or ICH7M-DH for Rev.A3.0)
I/O Chipset	ICH7M (or ICH7M-DH)
Ethernet	Intel® 82573L, 10/100/1000Base-TX
BIOS	Award BIOS v6.0 SPI type, 2MB ROM
EEPROM	Atmel® AT24C02, save BIOS and configuration data (Optional)
Wake on LAN	Yes
Watchdog Timer	Fintek F75111
H/W Status Monitoring	Supports CPU temperature monitoring
Expansion Interface	PCI-Express [x16] x 1 (Shared with 2 SDVO ports) PCI-Express [x1] x 3 (ICH7M for Rev.A2.0) PCI-Express [x1] x 5 (ICH7M-DH for Rev.A3.0) 32-bit PCI x 4 LPC bus x 1 SMBus x 1 I2C x 1
Power Requirement	Wide DC input range, +8.5V to +19V 2-pin wafer for RTC battery
Power Consumption (Typical)	Intel® Core™ 2 Duo T7400 2.16GHz, DDR II 667 2GB 3.97A @ +12V 0.82A @ +5V
Board Size	4.92" (L) x 3.75" (W) (125 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)	100,000
Display	
Chipset	Intel® 945GME integrated
Memory	Shared system memory up to 224MB/ DVMT 3.0
Resolutions	Up to 2048 x 1536 (QXGA) for CRT Up to 1600 x 1200 (UXGA) for LCD
LCD Interface	18-bit dual-channel LVDS
SDVO	Supports SDVO x 2 (Shared with PCI-Express [x16])
TV-Out	Intel® 945GME integrated, supports NTSC/PAL/HDTV HDTV supports: 480p/720p/1080i/1080p Supports Composite Video, S-Video, Component Video (YPbPr) on carrier board
I/O	
Storage	PATA x 1 (Two devices), SATA x 2
USB	USB 2.0 x 8
Audio	High definition audio
GPIO	Up to 4 in or 4 out

### Packing list

- M2.5 Screw x 5
- Utility CD
- COM-945

### Ordering Information

- **TF-COM-945-A20**  
COM Express CPU Module, Socket 478, 945GME + ICH7M, DDR II, Gigabit Ethernet, USB 2.0, Rev.A2.0
- **TF-COM-945-A30**  
COM Express CPU Module, Socket 478, 945GME + ICH7M-DH, DDR II, Gigabit Ethernet, USB 2.0, Rev. A3.0

### Optional Accessories

- **TF-ECB-916M-A10-01**  
COM Express Carrier Board, microATX, Dual Gigabit Ethernet, 7.1CH Audio, 4COM, USB, PCI-Express, AT/ATX, Rev. A1.0
- **TF-PER-A018**  
Heat Spreader Kit, For COM Express Module, Socket-type CPU
- **TF-PER-A019**  
Heat Spreader Kit, For COM Express Module, Onboard CPU
- **TF-PER-A076**  
Passive Heatsink, For COM-945, Socket-type CPU
- **TF-PER-A077**  
Passive Heatsink, For COM-945, Onboard CPU
- **TF-PER-A078**  
CPU Cooler, For COM-945, Socket-type CPU, 12V Fan
- **TF-PER-A079**  
CPU Cooler, For COM-945, Onboard CPU, 12V Fan