

Long-Term Supply Industrial PC**Core 2 Duo Model****Applications**

- Best solution to replace PC with PCI bus
- Long term supply and service make easy transition
- More than 500 different PCI interface modules can be used
- Suitable for applications such as measurements, control, inspection, data logger and others
- Digital I/O, Analog I/O, Communication, Counter, Motion Image Detector, GP-IB are just a few example of modules that can be used

Overview

The Core 2 Duo Model is empowered by the Intel Core 2 Duo processor, and features greater multitasking performance by combining two independent core processors. The CPU can process high load data such as big images. The Core 2 Duo Model includes an accurate timer suitable for real-time and hybrid operating system.

Features

- High Bandwidth Memory
Includes 2GB dual channel DDR2 main memory to achieve high-speed transfer.
- Wide Selections
 - PCI expansion slot is selectable from 1-slot to 4-slot for compact, small foot print.
 - 7-slot and 13-slot units are available for wider space applications.
- Suitable for customization
Both full and short size PCI units can be installed to suit customization
- Rich Interface Connections
 - Analog RGB
 - LAN x 2
 - Serial port
 - USB x 4
 - PS/2
 - Line output / microphone input
- Operating System
 - Windows XP Professional (until December 2016)
 - Windows Embedded Standard 2009

Specifications

CPU	Processor	Intel Core 2 Duo T7400 2.16 GHz, Intel Core 2 Duo U7500 1.06GHz	
	CPU Fan	Intel Core 2 Duo T7400: Yes, Intel Core 2 Duo U7500: No	
Chipset		Intel QG82945GME(945GME) ICH Intel NH82801GHM(ICH7)	
Main Memory		2GB(1GBx2)	
BIOS/Loader		Phoenix TrustedCore Embedded BIOS	
Calendar Clock		BR-1/2AA (Panasonic Corporation) (typical life time: 10 years)	
OS		Windows Embedded Standard 2009 Windows XP Professional (until Dec 2016)	
Storage	Boot Device	SATA HDD or 2.5 inch SSD (Select either one.)	
Graphic	Controller	Built into chipset	
	Resolution	2048 x 1536, 1920 x 1200, 1920 x 1080, 1600 x 1200, 1680 x 1050, 1400 x 1050, 1280 x 1024, 1280 x 768, 1024 x 768, 800 x 600 * Maximum resolutions may vary depending on the operating system or graphic driver.	
Interfaces	Display	15-pin D-sub connector x 1 port: analog RGB	
	Audio	Realtek, HD audio codec Line output x 1 (Φ3.5 stereo mini jack), Microphone input x 1 (Φ3.5 stereo mini jack) Line output: full scale output level 1.2 Vrms (typ.) Microphone input: full scale input level 1.6 Vrms (typ.)	
	PS/2	1 port (6-pin round DIN connector)	
	LAN	2 ports (RJ-45 connector), 1000BASE-T x 2 (Intel PC82573E), Wake On LAN	
	USB	5 ports (USB Rev.2.0 Series A connector)	
	RS-232C	1 port (9-pin D-sub connector) 16550 compatible, transfer rate: 115.2 kbps (max.)	
	External Input/Output Switch	Input x 3, output x 3 Power switch x 1, reset switch x 1	
	RAS	Watch Dog Timer	Software programmable (1 to 255 seconds) Time-up notification is software selectable either reset or interruption.
		Hardware Monitor	CPU temperature, board temperature, power supply voltage
Expansion Slot	Slot Count	1, 2, 4, 7, 13 slots	
	Bus Requirement	PCI Local Bus Specification Rev2.1 (+5 V)	
	Interrupt level	INTA through INTD	
	Bus Clock	33 MHz	
	Module Size	174.63 (D) x 122 (H) [mm]	
Power Capacity		4 slots: 50 W 7 slots: 210 W	
Chassis Fan		Yes	
Input Voltage		4 slots: 100 Vac (50 Hz/60 Hz) 7, 13 slots: 100 Vac to 240 Vac (50Hz/60Hz)	
Power Consumption		[4 slots] Core 2 Duo T7400: 32.6W [7 slots] Core 2 Duo T7400: 37.2W Core 2 Duo U7500: 27.6W Core 2 Duo U7500: 32.3W	
Dimensions (W x D x H [mm])		1 slot: 90 x 235 x 155 7 slots: 314 x 370 x 149 2 slots: 110.3 x 350 x 155 13 slots: 431 x 370 x 149 4 slots: 151 x 350 x 155	
Operating Conditions		Temperature: 0 degrees C to 50 degrees C (AC adapter: 0 degrees C to 40 degrees C, HDD: 5 degrees C to 50 degrees C Humidity: 20 % to 90 % (non condensing)	
Environment Resistance		Vibration resistance: 1.0 G (max.) - Vibration frequency: 10 Hz to 150 Hz - Displacement amplitude 0.15 mm (half amplitude) - Acceleration amplitude 9.8 m/s ² (1 G) - Duration 75 minutes Shock resistance: 15 G (max.) - Duration of activity: 11 ms (not operating) Noise immunity: - Static electricity: in contact: +/-6 kV, in the air: +/-8 kV - Radiated electromagnetic field: 10 V/m - Conduction: 10 V/m - FTB: signal: 1 kV, power supply: 2 kV	



Interface Amita Solutions, Inc.

Phone: (+1) 408-879-2387

Fax: (+1) 408-879-6205

E-mail: sales@amitasol.com

Website: <http://www.interface-amita.com>