

# **MFIII-945G/GC**

## **Industrial designed Mini Desk Top PC**

### **Engineering Specification ( LGA 775 CPU supported )**

#### **Motherboard specification:**

**All in one designed with VGA , LAN , sound on board.**

**Industrial circuit and components designed.**

**Chip sets: Intel 945G/GC + ICH7**

**CPU: Intel Celeron or Pentium 4 , Core 2 Duo socket LGA 775 CPU ( Conroe , Conroe-L , CEDAR MILL , Prescott CPU supported )**

**Lan : 1 x 10/100/1000 Giga Lan on board**

**USB ports: standard 8 ports ( 2 in the front & 6 in the back by slot bracket )**

**DVI interface : DVI interface ( optional )**

**Watch dog timer supported.**

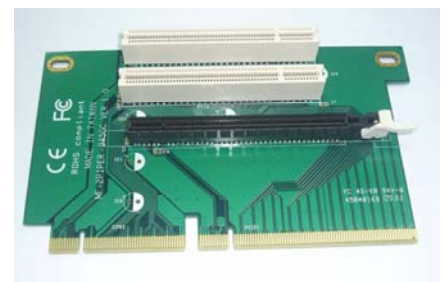
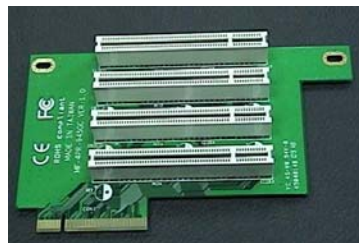
**COM ports : 6 COM ports ( 2 COM ports standard , extra 4 COM ports optional by slot bracket ) ( +5 V/+12V selectable power supported on each port , COM 2 can be configured for RS422/485 )**

**Case size : 32 cm ( W ) x 33 cm ( L ) x 11 cm ( H ) for MFIII-945G/GC**

**Power supply : ATX 300 watts switching power supply 110/230 V switchable.**

**Driver bay: 1 x 3.5" HDD + 1 x 3.5" FDD or HDD + 1 x 5.25" CD-ROM**

**Riser card for MFIII-945G/GC : 4 x PCI slots ( standard ) or  
1 x PCI-E ( x16 ) + 2 x PCI slots**



### *Motherboard Engineering Specifications*

<b>Product Name</b>	MF-945G/GC
<b>Form Factor</b>	Customer Design
<b>CPU type supported</b>	<b>Intel Celeron or Pentium 4 , Core 2 Duo socket LGA 775 CPU ( Conroe , Conroe-L , CEDAR MILL , Prescott CPU supported )</b>
<b>System Speed</b>	Up to 3.8GHz+
<b>CPU Operating Frequency</b>	533 / 800/1066 MHz
<b>Green /APM</b>	APM1.2
<b>CPU Socket</b>	Socket LGA 775
<b>Chipset</b>	Intel 945G/GC Chipset MCH: 82945G FC-BGA + ICH7 mBGA FWH
<b>BIOS</b>	Award BIOS Support ACPI Function
<b>Cache</b>	128K/256K/512K/1M/2M Level 2 (CPU integrated)
<b>VGA</b>	945G chipset built-in ,Supports CRT interface Shared memory, max. 224MB
<b>DVI interface ( optional )</b>	Chrontel CH7307 for DVI
<b>LAN</b>	Realtek <b>RTL811C PCI-E Giga</b> LAN controller (10/100/1000Mb)
<b>Audio</b>	ICH7 Built-in Sound controller + AC97 Codec ALC655 (Line-out, Line-in, MIC.)
<b>Audio AMP ( optional )</b>	2 watts per channel
<b>Memory type</b>	2 x DDR2 PC 533/667 DDR2 SDRAM( without ECC Function) DIMM Module, Max. capacity - 4GB
<b>LPC I/O</b>	Winbond W83627DHF: IrDax1 Parallel x1, COM1(RS-232),COM2(RS232/RS422/RS485), FDC 2.88MB/1.44MB,Hardware monitor(3 thermal inputs,6 voltage monitor inputs , VID0-4 , 1 chassis open detection ,3 Fan Header) <b>Jumper selectable for +5V or + 12V at pin 9 of DB9 for COM 1 , 2</b>
<b>Secondary I/O (option)</b>	Fintek F81216; for COM3,4,5,6 (RS232) 6 x10 pins header ( 2 sets ) <b>for extra 4 COM ports</b> <b>Jumper selectable for +5V or + 12V at pin 9 of DB9 for COM 3, 4,5,6</b>
<b>RTC/CMOS</b>	ICH7 Built-in
<b>Battery</b>	Lithium Battery
<b>PS2 Keyboard/Mouse Controller</b>	Winbond W83627DHF Built-in
<b>EPP/ECP</b>	Yes
<b>Local bus IDE</b>	ICH7 built-in ,IDE1,IDE2 (Ultra DMA 33/66/100 )
<b>Board Size</b>	Customer size
<b>Power Connector</b>	ATX P4 type
<b>Expansion slots ( Riser card )</b>	<b>4 x PCI slots or 1 x PCI-E ( x16 ) + 2 x PCI slots selectable</b>
<b>USB 2.0 x 8 ports (Universal Serial Bus) Standard</b>	8 ports ,USB Version 2.0, 2 ports in the front and 6 ports in the back side by slot bracket.
<b>SATA 4 ports</b>	4 ports serial ATA ports for HDD /CD-ROM interface
<b>IrDA (Infrared Ray)</b>	pin header ,This allows infrared wireless communication.
<b>Watchdog Timer ( optional )</b>	Yes ( 256 segments : 0,1,2,...255 sec/min)
<b>System Voltages</b>	+5V,+12V,-12V,5VSB,+3.3V
<b>Other Features</b>	Modem Wakeup, LAN Wakeup ,
<b>Operating Temperature</b>	0°C~60°C (32°F~140°F)
<b>Storage Temperature</b>	-20°C~80°C (-68°F~176°F)
<b>Relative Humidity</b>	10%~90% (non-condensing )
<b>MTBF</b>	70000 hours