

# CM-7301

## Intel® Core™ 2 Duo COM Express Module with CRT/18-bit LVDS, LAN & Audio



DDRII SO-DIMM

Socket 479

### Features:

- Intel® Core™ 2 Duo Pentium® M / Single Core™ Celeron® M processors
- Intel® 945GME with ICH7M chipset
- PICMG COM Express R1.0 compliant
- One DDRII SO-DIMM socket
- Intel® 82573L GbE Ethernet interface
- Flexible PCI-Express and PCI expansion
- Integrated Graphic supports dual SDVO, Analog VGA, 18-bit LVDS, TV-Out interface
- Supports COM Express standard features (USB, SATA, ATA, GPIO, AC97)
- RoHS compliant
- Basic form factor (95mm x 125mm), pin-out type II

### System

<b>CPU</b>	Socket 479 to support Intel® Core™ 2 Duo Pentium® M, Intel® Single Core™ Celeron® M FSB:533/667MHz
<b>BIOS</b>	Award® 512KB Flash BIOS
<b>System Chipset</b>	Intel® 945GME, ICH7M-DH
<b>System Memory</b>	1 x 200-pin DDRII SO-DIMM socket supports 400/533/667MHz memory max. up to 2GB w/o ECC registered
<b>Watchdog Timer</b>	255 levels timer interval, (1 ~ 255 seconds), setup by software. Jumper set up for system reset or IRQ
<b>System Monitoring</b>	Built-in 945GME chipset, supports dual independent displays
<b>Expansion Interface</b>	5 x PCI-Express x 1 and 1 x PCI-Express x 16 PCI 2.3 32-bit 33MHz supports up to four 2 Req/Gnt pairs

### I/O

<b>I/O Chipset</b>	Winbond® 83627HG
<b>I/O Interface</b>	2 x SATA, 1 x LPC & I2C bus, 8 x GPIO
<b>USB</b>	8 x USB ports, USB 2.0/1.1 compliant
<b>Audio</b>	AC 97 high definition Audio via ICH7M-DH I/O Hub

### Ethernet

<b>Chipset</b>	Intel® 82573L
<b>Ethernet Interface</b>	IEEE 802.3 10/100/1000Mbps Compliant physical layer

### Display

<b>Chipset</b>	Built-in 945GME chipset supports dual independent displays
<b>Features</b>	Dual SDVO, dual 18-bit LVDS channels, Analog VGA and TV-out
<b>External expansion</b>	Supports PCI-Express x 16 graphic port
<b>Memory Size</b>	1/4/8/16/32/64MB
<b>Resolution</b>	CRT display mode: up to 2048 x 1536 LCD display mode: up to 1600 x 1200
<b>LCD Interface</b>	LVDS
<b>LVDS Interface</b>	Dual 18-bit LVDS

### Mechanical and Environment

<b>Form Factor</b>	PICMG COM Express basic form factor, pin-out type II
<b>Dimension ( L x W )</b>	95mm (L) x 125mm (W) ( 3.8" L x 5" W )
<b>Power Supply Voltage</b>	+12V
<b>Operating Temperature</b>	0°C ~ 60°C ( 32°F ~ 140°F )
<b>Operating Humidity</b>	10% ~ 90% relative humidity, non-condensing
<b>Storage Temperature</b>	-20°C ~ 85°C ( -4°F ~ 185°F )
<b>Storage Humidity</b>	5% ~ 95% relative humidity, non-condensing

### Packing List

- 1 x CM-7301 SBC
- 1 x CD (Manual, Quick installation guide, Utility driver )

### Ordering Information

Standard	
<b>CM-7301A</b>	Intel® 945GME COM Express module with socket 479, CRT/18-bit LVDS, LAN, Audio

### Optional

<b>BB-103C</b>	COM Express evaluation board for GbE LAN w/o express card slot
HS1 for onboard CPU	
<b>39L-C36TRS-00</b>	Screw + type M3*0.5*L5(Ni)/ RoHS
<b>39L-C47TRS-00</b>	3*10 screw type (Ni)/ RoHS
<b>39L-PAD005-00</b>	PAD K2.2 H48-2 T1.0 (18*18mm)/RoHS
<b>42L-HS0109-00</b>	Heatsink (35 x 35 x 2.5mm)/ RoHS
<b>42L-HS0104-02</b>	Heatsink (125 x 72.1 x 28.5mm) RoHS for w/socket
HS2 for socket type CPU	
<b>39L-C47TRS-00</b>	3*10 screw I type (Ni)/RoHS
<b>39L-PAD005-00</b>	PAD K2.2 H48-2 T1.0 (18*18mm)/ RoHS
<b>42L-HS0104-02</b>	Heatsink (125 x 72.1 x 28.5mm) / RoHS for w/socket

\* Note : All specifications are subject to change without prior notice