

### **Main Features**

- Intel® Socket P, Core™ 2 Duo Family Processors
- Intel® GME965 Chipset
- 2 x DDR2 DIMM Socket Support Un-buffered Non-ECC DDR2

 Type 2 COM Express Module Support up to 21 Express lanes, 32 bit PCI Interface, One IDE and Gigabit LAN

## **Product Overview**

The ICES 300 is a Type 2 COM Express Module featuring Intel® GME965 and ICH8M chipset, switch supports Intel® Core $^{\text{TM}}$  2 Duo Merom/Core $^{\text{TM}}$  2 Duo Merom/Core $^{\text{TM}}$  2 Duo Merom LV processors with 667/800 MHz FSB and 2 x DDR2 memories with 533/677 MHz up to 4 GB. The ICES 300 supports 1 x PCI Express x16 for superb graphic display through the carried board; it also supports other display types include LFP, LVDS, and wide screen up to 1920 x 1200.

The high performance ICES 300 COM Express Module supports 3 x SATA, 8 x USB 2.0 and 5 x PCIe x1 Lanes through the carried board; and it is compatible with ICEB 8050 carried board. The ICES 300 offers the high processing power and vivid graphic display solution for advanced embedded applications.

## **Specifications**

#### **CPU Support**

- Supports Intel® Socket P, Core™ 2 Duo Family Processors
- Supports 800 FSB CPU

#### **Main Memory**

• 2 x DIMM, Dual channel DDR2 533/667 MHz up to 4 GB

#### Chipset

- Intel® GME965
- ICH8M I/O Controller Hub

#### **BIOS**

- Award System BIOS
- · Plug & Play support
- 8M bits flash ROM

## LAN

- Intel® 82573L LAN Chip
- Supports PXE LAN boot function
- Supports Wake on LAN

#### Display

- Intel® GME965 integrated graphics solution w/ Intel® Extreme Graphics 2 technology
- Up to 64 MB of dynamic video memory allocation
- One PCI Express x 16 Lane down to the carried board
- Drive a standard progressive scan analog monitor with resolution up to 2048 x 1536 @ 60Hz
- Supports LFP (local flat panel) LVDS interface resolution up to 1366 x 768
- Single- or dual-pixel LVDS panel support up to UXGA panel resolution (1600 x 1200)
- Supports Single channel for 24 bit/Dual channel for 24 bit
- Supports UXDA 1600 x 1200 @ 75HZ (4:3)
- Supports WUXDA 1920 x 1200 (Wide Screen)

#### **Audio**

HD Audio Interface

#### **COM Express Connectors**

ΔR

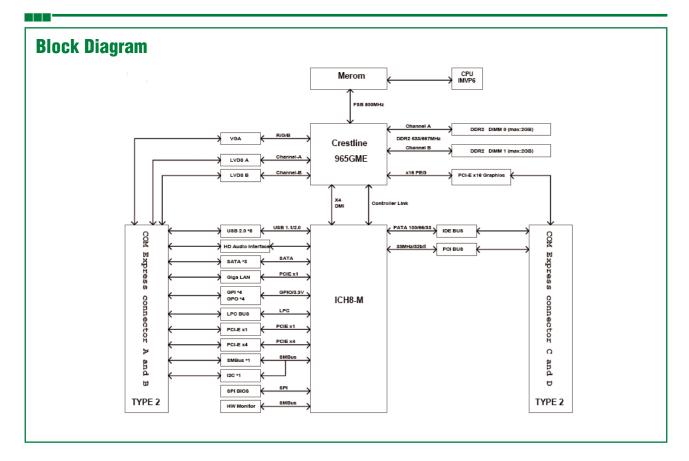
VGA/LVDS/8 x USB 2.0/HD Audio/3 x SATA/LAN/GPIO/LPC bus/ 1 x PCIe x4/1 x PCIe x1/SMBus (I²C)/SPI BIOS

• CD

PCIe x16/IDE/PCI

NE(COM Express





#### **System Monitor**

- Derived from HW monitor
- Monitoring of 4 voltages, 2 temperatures and 1 fan Speed
- 4 voltage (For +3.3 V, +5 V, +12 V, Vcore)
- 2 Temperatures (CPU and one external Temperature Sensor)

#### **Power Requirements**

• + 12 V, + 5 VSB, + 3.3 V RTC

#### **Dimensions**

• COM Express Extended Module Type 2 155mm (L) x 110mm (W) (6.1" x 4.3")

#### **Environment**

- Board Level Operating temperatures: 0°C to 60°C
- Storage temperatures: -20°C to 80°C
- · Relative humidity: 10% to 90% (operating, non-condensing) 5% to 95% (non-operating, non-condensing)

## Certifications

- · CE approval
- FCC Class A

# **Ordering Information**

+ ICES 300-SKT (PN:10K00030000X0) Type 2 COM Express Extended Module GME965 for advanced application

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