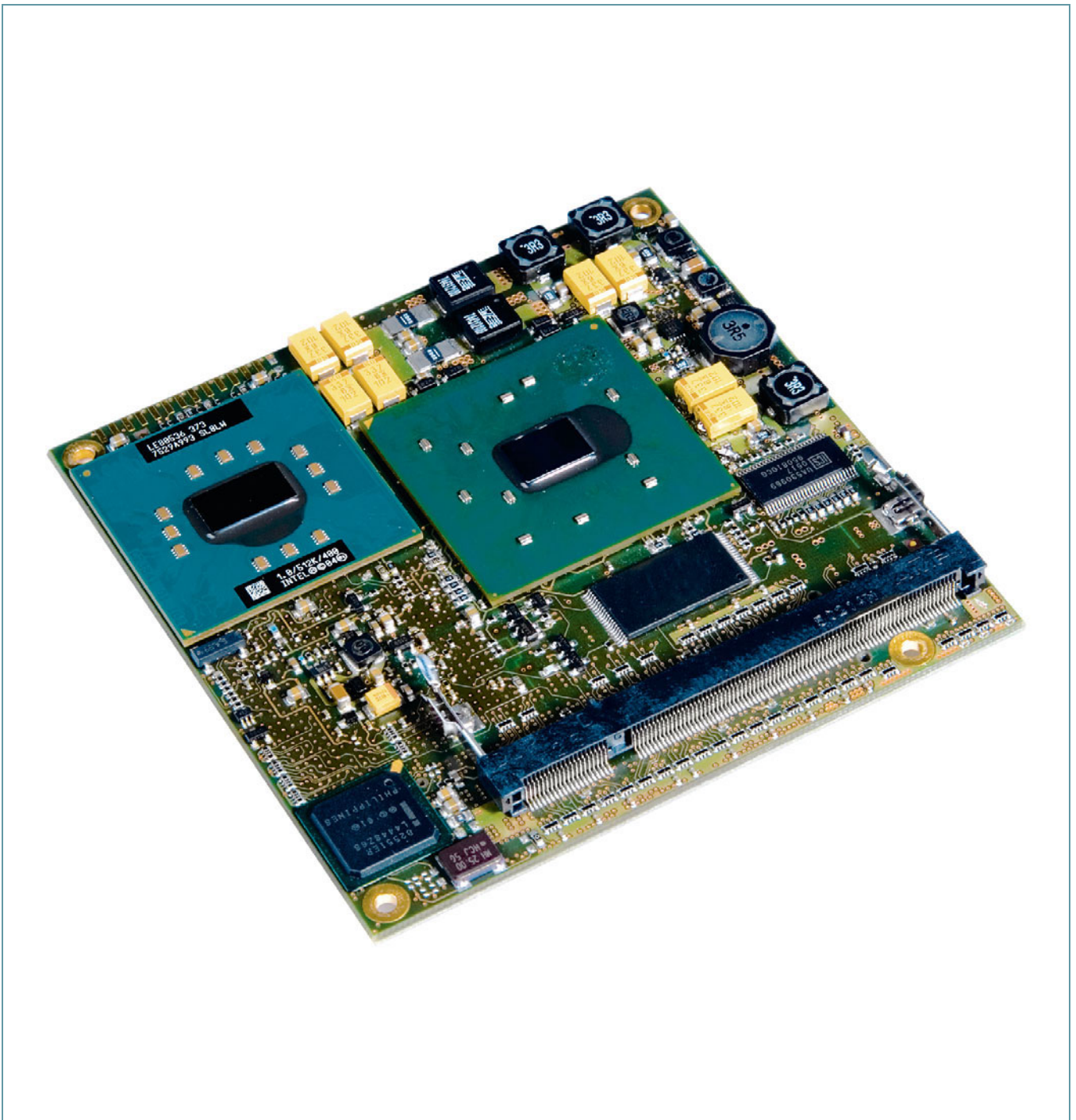


COMe 855 COMPACT MODULES

Com Express™ Family

- Intel® Pentium® M 1.4 GHz - 1.8 GHz
- Intel® 855GME Chipset with integrated Intel® Extreme Graphics2 Controller
- Up to 1Gbyte PC2700 DRAM (ECC possible)

COMe 855 c Pentium M Compact Module



COM Express, an open specification of the PICMG (PCI Industrial Computer Manufacturer Group), is a module concept to bring PCI Express and other latest technologies like SATA, USB 2.0 and LVDS on a COM (Computer On Module). COM Express is plugged onto an application-specific base board similar in the ETX concept, but offers more options and a growth path to future CPU technologies. Utilizing different sizes, COM Express can be used for highly embedded solutions up to high performance platforms.

The design of the COMe 855 C modules supports all current variants of the Intel Embedded Pentium M processor up to the latest version with 400 MHz FSB.

For evaluation and design-in of the COM Express modules we provide evaluation baseboards and develop motherboards providing the interface infrastructure for the COM Express module and offering PC plug connectors for external connection.

Special Starter Kits for Windows CE .NET and Linux are available on request.

III Features

- Intel Pentium M 1.4 GHz – 1.8 GHz (2 MB Cache)
- Intel 855GME Chipset with integrated Intel Extreme Graphics2 Controller
- Up to 1 GB PC2700 DRAM (ECC possible)
- Dual Enhanced IDE Interface
- 10/100Base-T Ethernet Interface
- LCD LVDS Interface (18 / 24 / 36 / 48 Bit)
- Resolution up to 1.600 x 1.200
- CRT Interface up to 2.048 x 1.536
- Dual Display Operation supported
- Quad USB 2.0 Interfaces
- AC'97 Audio Interface
- RTC (Battery-buffered)
- System Monitoring, Watchdog
- APM ACPI Power Management including Suspend-to-RAM
- Fully COM Express Type 2 compliant
- WindowsXP (embedded), Windows CE .NET and
- Linux supported

| Product description | Clock | TDP |
|--------------------------------------|----------|---------|
| COMe Pentium M 745 Compact Module | 1.80 GHz | 26 Watt |
| COMe Pentium M LV 738 Compact Module | 1.40 GHz | 15 Watt |

III Core Logic, Memory

| | |
|---------|--|
| CPU | Intel Pentium M LV 738 (1.4 GHz) or 745 (1.8 GHz) FSB 400 MHz |
| Chipset | Intel 82855GME, ICH4 |
| Memory | 200-pin SO-DIMM socket for up to 1 GB, PC2700 DDR SDRAM (DDR 333), ECC possible with ECC-SODIMM |

III Drives

| | |
|--------|-----------------------------------|
| EIDE | 2 Enhanced IDE ports Ultra DMA100 |
| Floppy | Shared with parallel port |

III Standard Interfaces

| | |
|-----|-------------|
| USB | 4 x USB 2.0 |
|-----|-------------|

III Bus Interfaces

| | |
|------------------------|---|
| COM Express™ Interface | Typ2 Interface with PCI and IDE. No PCI Express Signal due to used chipset |
| PCI | 32-bit standard interface |
| Serial Bus | I ² C Bus, SMBus interface |

III Flat Panel / CRT Interfaces

| | |
|---------------------|---|
| Graphics Controller | Intel® Extreme Graphics2 (integrated in Intel® 855 GM Chipset) |
| Video Memory | UMA, up to 32MB |
| LCD Interface | LVDS 18/24/36/48-bit max. resolution 1.600 x 1.200 CRT Interface Max. resolution 2.048 x 1.536 |

III Miscellaneous

| | |
|----------------|--|
| Watchdog Timer | Creates system reset (programmable, 1s ... 255h) |
| Fan Supply | 3-pin header (5V) |
| Battery | External |

III System Monitoring

| | |
|-------------|-----|
| Voltage | yes |
| Temperature | yes |
| Fan | yes |

III LAN Interface

| | |
|----------|---|
| Ethernet | 10/100Base-T controller in ICH4 (Intel® 82559 compatible) |
| LAN Boot | RPL PXE |

III Sound Interface

| | |
|-------|---------------------------------------|
| Audio | AC'97 2.3 Audio Codec, Realtek ALC650 |
|-------|---------------------------------------|

III BIOS

| | |
|--------------------|---|
| Type | Phoenix (in on-board Flash) |
| Auto Configuration | Plug & Play (PCI, ISA) PCI Auto Configuration (PCI 2.1) Automatic DRAM configuration |
| Boot Options | Quick Boot, MultiBoot (FD, HD, CD, LAN, USB) Boot without keyboard |
| Security | System and setup password Write protection for BIOS Flash |
| Power Management | APM ACPI (including suspend-to-RAM) Fixed frequency option (Setup) Geyserville 3 Support |
| USB | USB legacy support (Keyboard, Mouse, Hub) |
| Video | VGA Bios with flat panel extensions |
| Flash Update | BIOS update via storage media |
| Setup | CMOS setup backup in Flash chip |

III Power Supply

| | |
|-------------------|--|
| Power | +5V +/-10% |
| Power Consumption | 15W typ. (1.4GHz, 256MB) 1.5W typ. (suspend) |

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III Environment

Ambient 0° ... 60°C (operating)
Temperature -25° ... 85°C (storage)
Humidity 20 ... 80% (operating)
5 ... 95% (storage, non-cond.)

III Mechanical

Dimensions 95mm x 95mm x 12mm
Heatspreaders 95mm x 95mm x 2mm with through hole standoffs (3mm)
or threaded corner standoffs (2.5mm)

