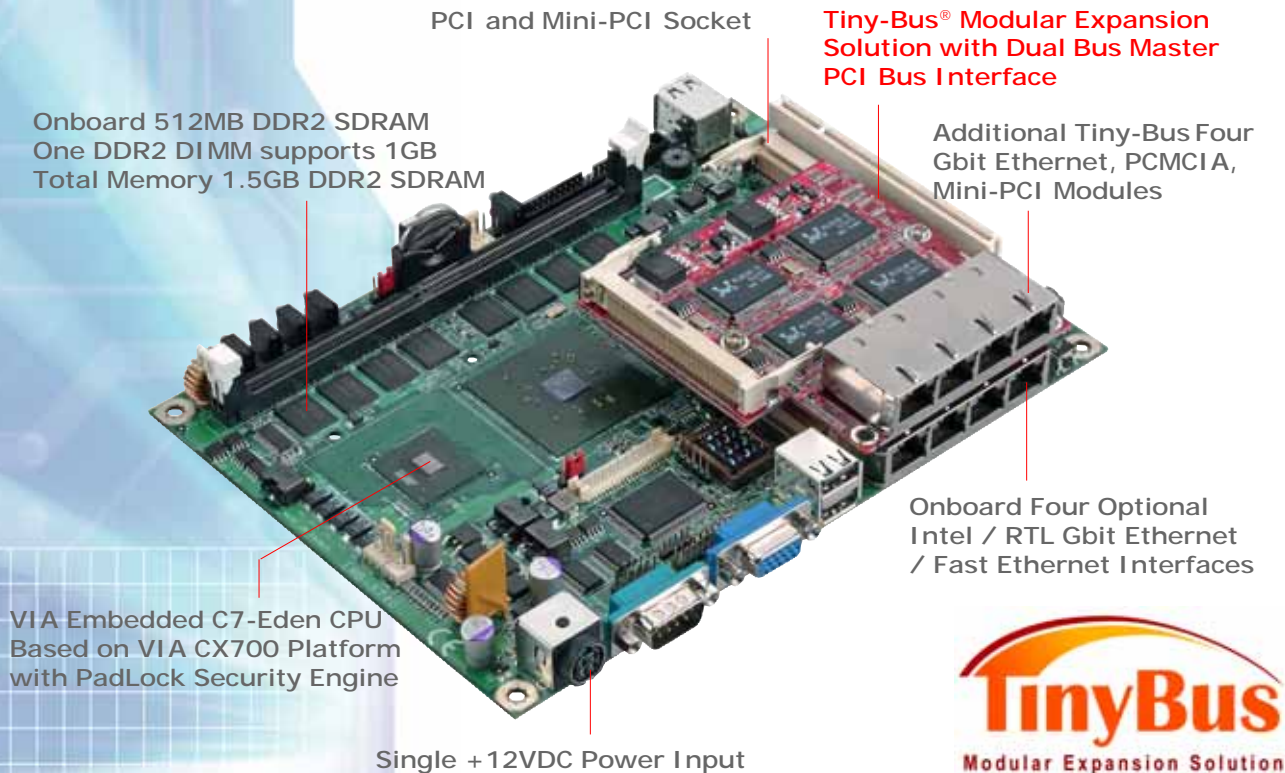


EMB-5740

VIA C7-Eden Multi-Ethernet EmBoard



The Liantec EMB-5740 is an all-in-one industrial embedded multiple Ethernet motherboard based on the 5.25" drive size EBX form factor and VIA embedded C7-Eden platform, features the onboard 512MB DDR2 SDRAM, four optional Intel / RTL Gbit Ethernet / Fast Ethernet interfaces, mini-PCI, CompactFlash socket and the Liantec Tiny-Bus® Modular Expansion Solution with dual bus master PCI bus interfaces. With Liantec Tiny-Bus® Modular Expansion Solution, the EMB-5740 can be upgradeable with additional dual mini-PCI, dual PCMCIA CardBus, or four Gbit Ethernet for the industrial embedded Small Form Factor (SFF) x86-based networking computing applications with flexible modular expansion solution.

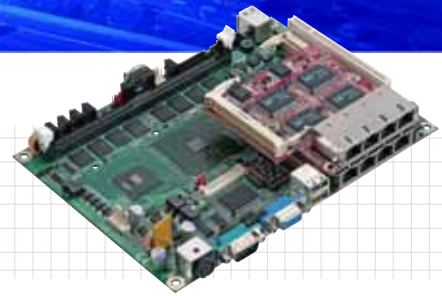
Key Features

- VIA embedded C7-Eden CPU with PadLock security engine.
- Onboard VIA Eden and Eden ULV CPU for fanless operating.
- Onboard optional 256 / 512 MB DDR2 SDRAM and one DDR2 DIMM socket. Total memory capacity supports up to 1.5GB DDR2 SDRAM.
- VIA CX700 chipset built-in UniChrome Pro graphics engine.
- **Onboard four optional Intel / RTL Gbit Ethernet / Fast Ethernet interfaces.**
- **Tiny-Bus® Modular Expansion Solution with dual PCI bus interface, supports dual mini-PCI, dual PCMCIA CardBus, 10/100 Mbps switch and four Gbit Ethernet Tiny-Bus® modules for advanced networking computing applications.**
- Onboard USB 2.0, mini-PCI and CompactFlash sockets.
- Single +12V DC power operating with external power jack.
- Compact, slim type and fanless barebone solutions are available.



EMB-5740

5.25-inch VIA C7-Eden Multi-Ethernet EmBoard with Onboard DDR2 SDRAM, Four Gbit Ethernet VGA, SATA, Mini-PCI and CompactFlash Socket and Tiny-Bus® Modular Expansion Solution



Form Factor

5.25-inch drive size EBX form factor at 203 x 146 mm

CPU

VIA embedded C7-Eden 600MHz CPU with PadLock engine
Optional onboard VIA compatible C7 and Eden CPU as :

- * Eden 400MHz - 1.2GHz CPU (fanless operating)
- * Eden ULV 500MHz / 1GHz / 1.5GHz CPU (fanless operating)
- * C7 1.0 - 2.0 GHz CPU (with CPU fan)

Memory

Onboard optional 256 / 512MB DDR2 SDRAM
One DDR2 DIMM socket supports 1GB DDR2 SDRAM
Total memory capacity up to 1.5GB DDR2 SDRAM

Chipset

VIA embedded CX700 chipset

Watchdog Timer

Programmable system reset watchdog timer

SATA and IDE (PATA) Port

One 44-pin UltraATA100/133 IDE and two SATA 150MBps ports

Solid State Flash Disk Interface

CompactFlash Card Socket

Onboard CompactFlash socket supports CompactFlash Card (CFC) with PIO mode 4 / Multi-Word mode 2
Jumper selectable master / slave mode on primary IDE port

DiskOnModule (DOM) Flash Disk

Onboard IDE ports support DiskOnModule (DOM) flash disk
44-pin DiskOnModule at PIO mode 4 / Multi-Word mode 2

Expansion Bus Interface

One PCI slot and one mini-PCI socket shared PCI bus master
Liantec Tiny-Bus® embedded modular expansion solution with dual bus master 32-bit / 33MHz PCI bus interface

Video Interface

VIA CX700 chipset built-in UniChrome Pro graphics engine
External DB15 female connector for VGA on rear I/O panel

USB 2.0, RS232 COM and GPIO Port

4 external (2 front and 2 rear) and 2 internal USB 2.0 ports
One external and one internal RS232 COM port
Internal 16-bit programmable GPIO port with 2x10-pin header

Ethernet Interface

Optional four Intel / RTL Gigabit / Fast Ethernet Interfaces
External quad-RJ45 connector on rear I/O panel
External link / active LEDs on front panel

External I/O Port and Indicated LED

Rear I/O Panel

Power jack, COM, VGA, 2 USB, 4 RJ45 Ethernet, power switch

Front I/O Panel

2 USB ports, Ethernet link / active LED, power / access LED

Environment

Power Requirement: single +12V DC power operating
Board Dimension: 203 x 146 mm (L x W)
Operation Temperature: 0 ~ 60°C (32 ~ 140°F)

Tiny-Bus® Modular Expansion Solution

EMB-5740 supports Tiny-Bus® Modular Expansion Solution with dual bus master PCI bus interface.

- **TBM-1200**: PCI Dual Mini-PCI Module
- **TBM-1210**: PCI Dual PCMCIA CardBus and Mini-PCI Module
- **TBM-1230**: PCI 4-Port Switch Hub and Mini-PCI Module
- **TBM-1240**: PCI 4-Port Gigabit Ethernet and Mini-PCI Module

For the further information about Liantec Tiny-Bus® modules, please visit the website at <http://www.liantec.com>.

Ordering Code

EMB-5740E6R4-512

5.25" Drive-size VIA C7-Eden Multi-Ethernet EmBoard with Onboard VIA Eden 600MHz CPU, 512MB DDR2 SDRAM, Four RTL Gbit Ethernet, VGA, Mini-PCI, CompactFlash Socket and Tiny-Bus® Modular Expansion Solution.

EMB-5740E6R4P2-512

EMB-5740E6R4-512 with **TBM-1200** Mini-PCI Module
Supports Three Mini-PCI (2 on module) Interfaces

EMB-5740E6R4MP-512

EMB-5740E6R4-512 with **TBM-1210** PCMCIA Module
Supports Additional Dual PCMCIA CardBus Interfaces

EMB-5740E6R8-512

EMB-5740E6R4-512 with **TBM-1240R** Ethernet Module
Supports 8 Gbit Ethernet (4 on module) Interfaces

EMB-5740-OEM

Customized EMB-5740 EmBoard with Optional Function Configuration and Tiny-Bus® Modular Expansion Solution.

Please visit the website of <http://www.liantec.com> for the further information.