

COMX-430/440

COM Express Modules

■ Embedded Computing for
Business-Critical Continuity™

Type 2 COM Express modules provide easy-to-use embedded PC functionality

- Intel® Atom™ processor D410/
D510 @ 1.66 GHz
- Up to 4GB DDR2 memory
- Gigabit Ethernet, SATA and
PCI Express
- LVDS graphics for flat panel
displays
- 8x USB 2.0 interfaces

The COMX-430 and COMX-440 from Emerson Network Power are 95 mm x 95 mm Type 2 COM Express® modules based on the Intel® Atom™ processor D410/D510 for low power consumption and scalable performance. They are designed for use in a variety of applications such as industrial control, kiosks, clinical display systems, panel PCs, diagnostic and test equipment and similar applications that require easy-to-use embedded PC functionality.

The COMX-430 and -440 modules are based on the most common format COM Express module - Type 2. This makes them suitable for both existing applications that are looking to use a new processing module from a trusted vendor as well as new applications that need to incorporate off-the-shelf PC controller functionality onto custom I/O baseboards. The latest generation Unified Extensible Firmware Interface (UEFI) BIOS from AMI manages the interaction between the low-level hardware and OS-level interfaces in a clean and efficient way for superior reliability.

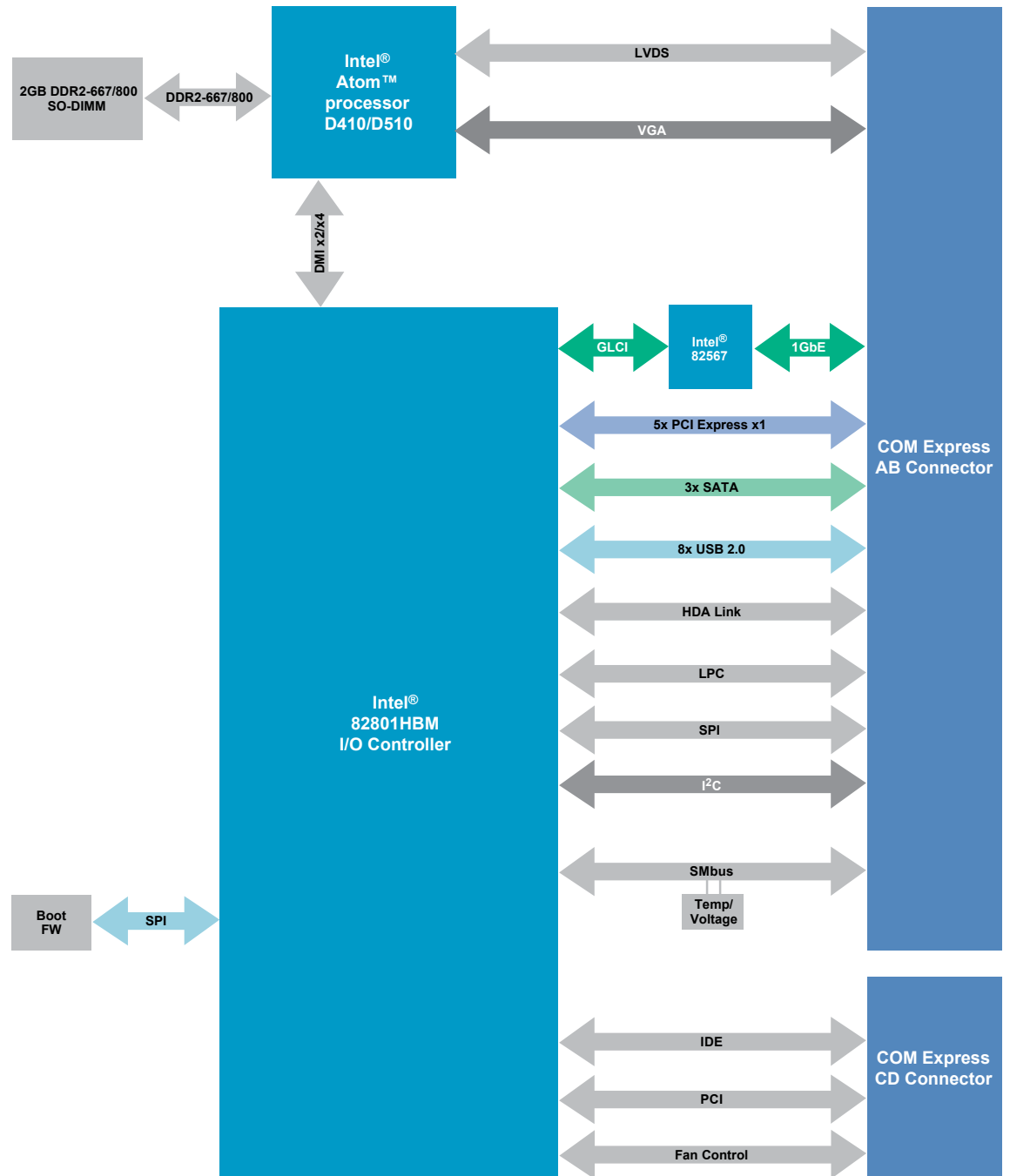
These COM Express modules have a wide range of built-in devices to connect to standard PC interfaces including LCD and CRT displays, both SATA and legacy PATA disks, PCI Express and PCI peripherals, USB devices and Gigabit Ethernet networks. They support a range of solid state disks via the SATA interface or CompactFlash via the IDE interface on the carrier.



COM  Express®


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Block Diagram



Hardware Specifications

PROCESSOR

- Intel® Atom™ processor D410/D510 single/dual core @ 1.67 GHz with 512KB L2 cache

CHIPSET

- Intel® 82801HBM I/O Controller

MEMORY

- Two 200-pin DDR2 non-ECC SO-DIMM sockets. Maximum memory capacity is 4GB (2GB per SO-DIMM), minimum capacity is a single 512MB SO-DIMM.

VIDEO

- 400 MHz graphics engine
- Supports dual display outputs with single-channel LVDS and VGA connectivity. LVDS resolution up to 18bpp, XGA (1024x768) and WXGA (1366x768). VGA resolution up to QXGA 2048x1536 pixels, 32 bits, 60Hz.

BUS EXPANSION

- Five PCI Express x1
- One PCI

I/O

- (1) Gigabit Ethernet (Intel® 82567)
- (3) SATA
- (1) PATA
- (8) USB 2.0
- HD Audio
- LPC
- SPI

POWER CONSUMPTION

- 17W Typical for D410 variant (running Microsoft® Windows® XP and fitted with 1GB DRAM)

COMPLIANCE AND CERTIFICATION INFORMATION

- EMC and Safety
 - ▲ FCC, VCCI, AS/NZ Class B
 - ▲ EN 55024, EN 55022
 - ▲ UL/CSA 60950-1, EN 60950-1 and IEC 60950-1 compliant

Firmware and Operating System Support

BIOS

- AMI UEFI BIOS

OS COMPATIBILITY:

- Microsoft® Windows® XP
- Microsoft Windows 7
- Fedora 12 Linux

Package Contents

- (1) COMX-430/440 Module
- (1) Drivers CD
- (1) QuickStart Guide and Safety Manual

Ordering Information	
Product	Description
COMX-430	Type 2 COM Express module with Intel® Atom™ processor D410 single core at 1.67 GHz
COMX-440	Type 2 COM Express module with Intel Atom processor D510 dual core at 1.67 GHz
Accessories	
COMX-440-HP	Heat spreading plate
COMX-440-HTSNK	Active heatsink
COMX-CAR-210	Type 2 carrier card

SOLUTION SERVICES

Emerson Network Power provides a portfolio of solution services optimized to meet your needs throughout the product lifecycle. Design services help speed time-to-market. Deployment services include global 24x7 technical support. Renewal services enable product longevity and technology refresh.

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