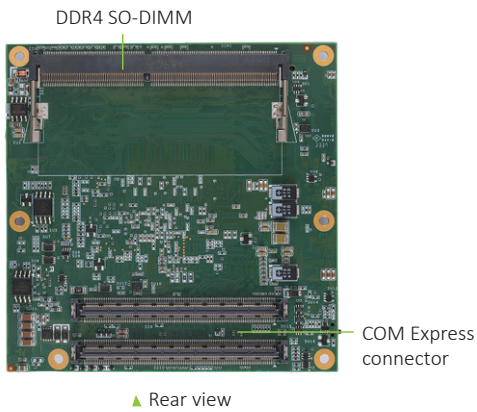
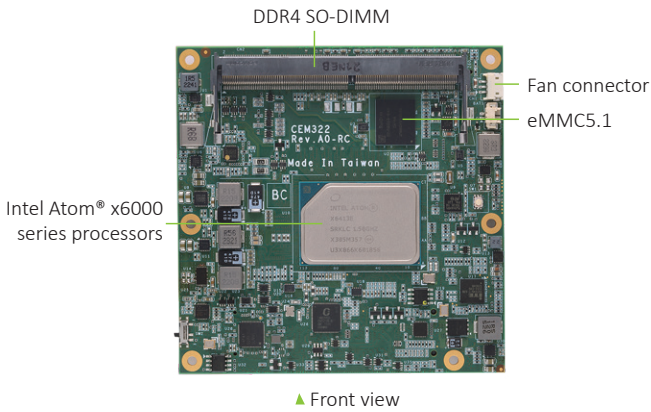


CEM322 NEW

COM Express Type 6 Compact Module with Intel® Pentium®/Celeron® or Atom® x6000 Series Processors



Features

- Intel® Pentium®/Celeron® or Atom® x6000 series processors
- Dual-channel DDR4-3200 SO-DIMM, up to 32GB
- Up to 6 lanes of PCI Express
- 2 SATA Gen3
- 2 USB 3.2 Gen1 and 8 USB 2.0
- Supports up to 64GB eMMC 5.1 (by request)
- Supports TPM 2.0



Specifications

Core System

CPU	Intel Atom® x6425RE/x6413E/x6414RE or Intel® Pentium® J6426
System Memory	2 x Dual-channel DDR4-3200 SO-DIMM slot, up to 32GB
Chipset	SoC integrated
BIOS	AMI uEFI (Legacy free)
On board storage	eMMC5.1, up to 64GB
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	5 x PCIe x1 6 x PCIe x1 (optional, by removing 2.5GbE)
Battery Lithium	Yes
Power Input	ATX: +12V, +5VSB AT: +12V

Display

Chipset	Intel® Gen11 Graphics Engines (SoC integrated)
Display Interface	1 x LVDS; 18/24-bit single/dual-channel (optional eDP 1.4b HBR3: 5120 x 3200@@60Hz) 2 x DDI

I/O

SATA	2 x SATA Gen3
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000/2500 Mbps Ethernet with Intel® I226 with support for Wake-on-LAN and PXE Boot ROM
Audio	HD link interface to baseboard for Codec
USB	2 x USB 3.2 Gen1 8 x USB 2.0
Serial	1 x LPC 1 x SPI 2 x TX/RX
TPM	TPM 2.0
SMBus	Yes
Others	1 x I ² C
GPIO	4-CH in & 4-CH out
Smart Battery	Yes

Mechanical and Environmental

Dimensions	95 x 95 mm
Board Thickness	2.0 mm
Operating Temperature	Industrial: -40°C to +85°C (-40°F to +185°F) with system thermal solution Standard: 0°C to +60°C (32°F to 140°F), operation
Humidity	10% to 95% relative humidity, non-condensing
Vibration Endurance	3.5 Grms

Packing List

Quick installation guide

Ordering Information

Standard

CEM322-x6413E (P/N: TBD)	COM Express Type 6 Compact module with Intel Atom® x6413E, DDI, LVDS, 3.2 Gen1, and GbE LAN
CEM322-J6426 (P/N: TBC)	COM Express Type 6 Compact module with Intel Atom® J6426, DDI, LVDS, 3.2 Gen1, and GbE LAN
CEM322-x6425RE (P/N: TBC)	COM Express Type 6 Compact module with Intel Atom® x6425RE, DDI, LVDS, 3.2 Gen1, GbE LAN, and wide temperature support
CEM322-x6414RE (P/N: TBC)	COM Express Type 6 Compact module with Intel Atom® x6414RE, DDI, LVDS, 3.2 Gen1, GbE LAN, and wide temperature support

Optional

CEB94011 (P/N: E394011100)	COM Express Type 6 evaluation board
TBC	CEM322 heat sink with fan
TBC	CEM322 heat spreader

Block Diagram

