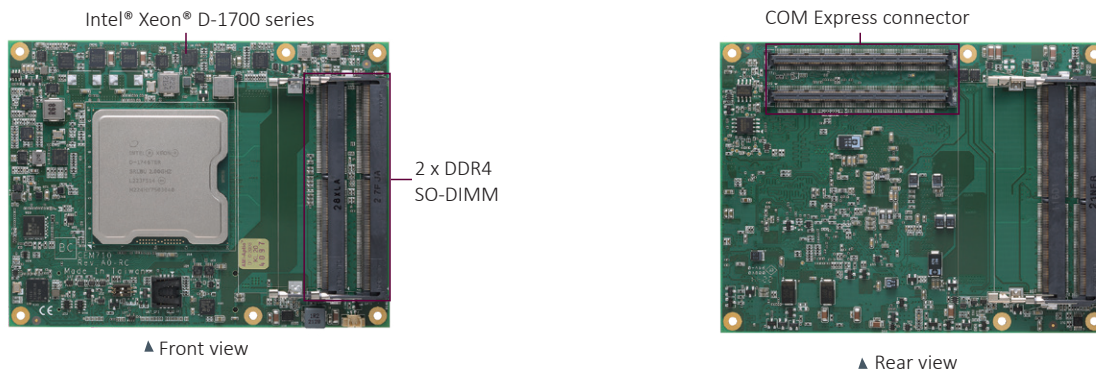


CEM710 NEW

COM Express Type 7 Basic Module with Intel® Xeon® D-1700 Series Processor



Features

- Intel® Xeon® D-1700 series processor (Ice Lake D)
- 2 DDR4-2400 SO-DIMM for up to 64GB memory
- 1 PCIe x16 Gen 3 (PEG), 1 PCIe x8 Gen 3, and 6 PCIe x1 Gen 3
- 2 SATA 3.0
- 4 USB 3.0 and 4 USB 2.0
- 4 10GBase-KR
- Supports TPM 2.0

Specifications

Core System

CPU	Intel® Xeon® D-1712TR (4 x 2.0 GHz, 10MB cache, 50G Eth, 40W) Intel® Xeon® D-1715TER (4 x 2.4 GHz, 10MB cache, 50G Eth, 50W) Intel® Xeon® D-1732TE (8 x 1.9 GHz, 15MB cache, 50G Eth, 52W) Intel® Xeon® D-1735TR (8 x 2.2 GHz, 15MB cache, 50G Eth, 59W) Intel® Xeon® D-1746TER (10 x 2.0 GHz, 15MB cache, 100G Eth, 67W)
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 64GB with ECC support
Chipset	SoC integrated
BIOS	AMI uEFI (Legacy free)
Storage	N/A
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	1 x PCIe x16 Gen 3 (PEG) 1 x PCIe x8 Gen 3 6 x PCIe x1 Gen 3
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB AT: +12V

Specifications

I/O

SATA	2 x SATA 3.0
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000/2500 Mbps with Intel® I226, configured through COMe PCIe port 7 4 x 10GBASE-KR with Intel® 10G external PHY
Audio	N/A
USB	4 x USB 3.0 4 x USB 2.0
Serial	2 x TX/RX
TPM	TPM 2.0
SMBus	Yes
Others	1 x I ² C 1 x LPC 1 x SPI
GPIO	4-CH in/4-CH out
Smart Battery	N/A

Mechanical and Environmental

Dimensions	125 x 95 mm
Board Thickness	2.0 mm
Operating Temperature	Standard: 0°C to +60°C (+32°F to +140°F) Extended: -40°C to +85°C (-40°F to +185°F) with system thermal solution
Relative Humidity	10% to 95% relative humidity, non-condensing
Vibration Endurance	3.5 Grms

Ordering Information

Standard

CEM710-D1712TR (P/N: E38D710102)	COM Express Type 7 basic module with Intel® Xeon® D-1712TR, 10GBASE-KR, USB 3.0, and TPM
CEM710-D1746TER (P/N: E38D710100)	COM Express Type 7 basic module with Intel® Xeon® D-1746TER, 10GBASE-KR, USB 3.0, and TPM

Optional

CEB94701 (P/N: E394701100)	COM Express Type 7 development board
E39R170102	Cooler CEM710 L125 W94.8 T23.45
E39R170103	Heatspreader CEM710 L125 W95 T11

Packing List

Quick installation guide

Block Diagram

