

CEM700

COM Express Type 7 Basic Module with Intel® Xeon® D-1500 & Pentium® Processor D1500

Features

- Intel® Xeon® D-1500 and Pentium® Processor D1500 (Broadwell-DE)
- 2 DDR4-2400 SO-DIMM for up to 64GB of memory
- 1 PCIe x16 Gen3, 1 PCIe x8 Gen3, 8 PCIe x1 Gen2
- 2 SATA-600
- 4 USB 3.0 and 4 USB 2.0
- Two 10GBASE-KR
- TPM 2.0 supported



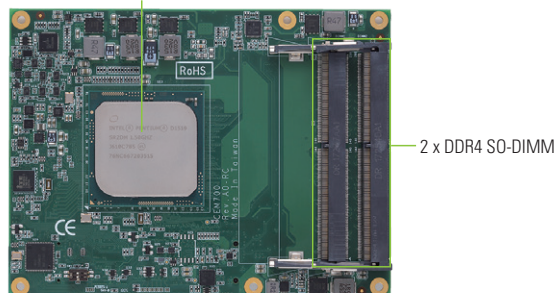
Core System

CPU	Intel® Xeon® D-1577 1.3/2.1GHz 24MB, 45W (16C) Intel® Xeon® D-1539 1.6/2.2GHz 12MB, 35W (8C) Intel® Xeon® D-1527 2.2/2.7GHz 6MB, 35W (4C) Intel® Pentium® D1519 1.5/2.1GHz 6MB, 25W (4C) Intel® Pentium® D1508 2.2/2.6GHz 3MB, 25W (2C)
System Memory	2 x 260-pin DDR4-2400 ECC SO-DIMM, up to 64GB
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 Gen3 1 x PCIe x8 Gen3 8 x PCIe x1 Gen2
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB AT: +12V
Dimensions	125 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)
Humidity	10% - 95% relative humidity, non-condensing
Vibration Endurance	3.5 Grms

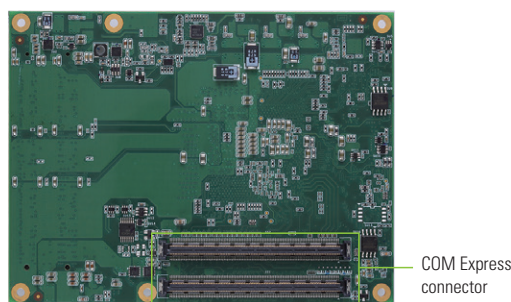
I/O

SATA	2 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210 2 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

Intel® Xeon® D-1500/
Pentium® D1500 processor



2 x DDR4 SO-DIMM



COM Express connector

▲ Rear view

Packing List

Quick installation guide

Ordering Information

Standard

CEM700-D1577 (P/N: E38D700100)	COM Express Type 7 Basic module with Intel® Xeon® D-1577, 10GBASE-KR, USB 3.0, and TPM
CEM700-D1539 (P/N: E38D700102)	COM Express Type 7 Basic module with Intel® Xeon® D-1539, 10GBASE-KR, USB 3.0, and TPM (Ind. Temp)
CEM700-D1527 (P/N: E38D700101)	COM Express Type 7 Basic module with Intel® Xeon® D-1527, 10GBASE-KR, USB 3.0, and TPM
CEM700-D1519 (P/N: E38D700103)	COM Express Type 7 Basic module with Intel® Pentium® D-1519, 10GBASE-KR, USB 3.0, and TPM (Ind. Temp)
CEM700-D1508 (P/N: E38D700104)	COM Express Type 7 Basic module with Intel® Pentium® D-1508, 10GBASE-KR, USB 3.0, and TPM

Optional

CEB94701 (P/N: E394701100)	COM Express Type 7 development board
E39J012100	CEM700 heatpipe cooler
7128D700000E	CEM700 heat spreader