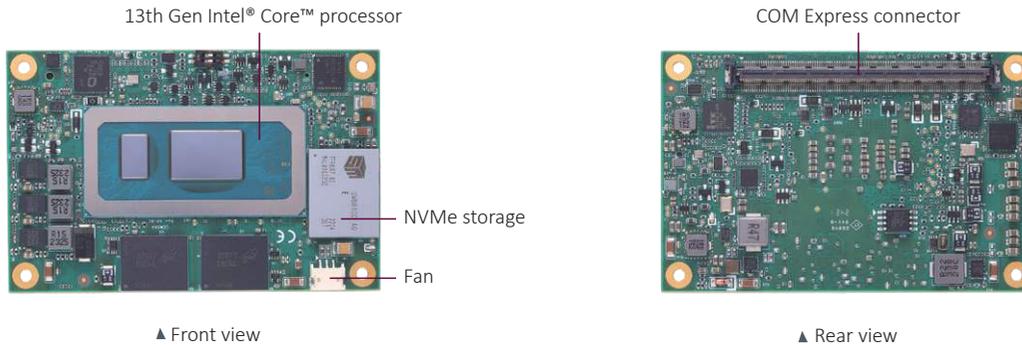


# CEM568 NEW

COM Express Type 10 Mini Module with 13th Gen Intel® Core™ or Processor U300E



## Features

- 13th Gen Intel® Core™ i7/i5/i3 or processor U300E (Raptor Lake)
- LPDDR5-6400, up to 32GB
- Up to 4 lanes of PCI Express
- 2 SATA 3.0
- 2 USB 3.2 Gen2 and 8 USB 2.0
- Supports NVMe SSD for up to 512GB memory
- Supports TPM 2.0

## Specifications

### Core System

CPU	13th Gen Intel® Core™ i7/i5/i3 or processor U300E
System Memory	LPDDR5-6400, up to 32GB
Chipset	SoC integrated
BIOS	AMI uEFI (Legacy free)
SSD	NVMe for up to 512GB memory (optional)
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	4 x PCIe x1
Fan Connector	Yes
Power Input	ATX: +12V, +5VSB AT: +12V Extended voltage: 4.75V to 20V

### Display

Graphics	Intel® UHD Graphics
Display Interface	1 x LVDS; 18/24-bit single channel (optional eDP 1.4b HBR3: 5120 x 3200 @ 60 Hz) 1 x DDI (with up to 8K supported)

## Specifications

### I/O

SATA	2 x SATA 3.0
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000/2500 Mbps Ethernet with Intel® I226, supporting Wake-on-LAN and PXE Boot ROM
Audio	HD link interface to baseboard for audio codec
USB	2 x USB 3.2 Gen2 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 <sup>2</sup> C
GPIO	4-CH in/4-CH out
Smart Battery	Yes

### Mechanical and Environmental

Dimensions	84 x 55 mm
Board Thickness	2.0 mm
Operating Temperature	Extended Temperature: -40°C to +85°C (-40°F to +185°F), operation with a system thermal solution Standard Temperature: -20°C to +70°C
Relative Humidity	10% to 95% relative humidity, non-condensing
Vibration Endurance	3.5 Grms

## Ordering Information

### Standard

CEM568-i7-1365URE (P/N: TBD)	COM Express Type 10 mini module with Intel® Core™ i7-1365URE, DDI, LVDS, 2.5GbE LAN, 64GB NVME, TPM, and extended temperature
CEM568-i5-1345URE (P/N: TBD)	COM Express Type 10 mini module with Intel® Core™ i5-1345URE, DDI, LVDS, 2.5GbE LAN, 64GB NVME, TPM, and extended temperature
CEM568-i3-1315URE (P/N: TBD)	COM Express Type 10 mini module with Intel® Core™ i3-1315URE, DDI, LVDS, 2.5GbE LAN, 64GB NVME, TPM, and extended temperature
CEM568-U300E (P/N: TBD)	COM Express Type 10 mini module with Intel® processor U300E, DDI, LVDS, 2.5GbE LAN, TPM, and extended temperature

### Optional

CEB94017 (P/N: TBD)	COM Express Type 10 evaluation board
TBD	CEM568 STD thermal cooler
TBD	CEM568 turbo thermal cooler
TBD	CEM568 heat spreader

## Packing List

Quick installation guide

## Block Diagram

