

COM-ICDB7

COM Express Type 7 with Intel® Xeon® D Processors

COM Express CPU Modules



Features

- DDR4 2400MHz SODIMM x 2, up to 64GB
- USB 2.0 x 4, USB 3.2 Gen 1 x 4
- PCIe [x2] x 8, PEG [x16] x 1
- Intel® I210-IT GbE x 1, 10GbE x 4
- COM Express Type 7, 4.92" x 3.75" (125mm x 95mm)



Specifications

System	
Form Factor	COM Express Basic Size, Type 7
CPU	Intel® Xeon® D Processors: Intel® Xeon® D-1746TER (10C/20T, 2.00 GHz, 67W) Intel® Xeon® D-1735TR (8C/16T, 2.20 GHz, 59W) Intel® Xeon® D-1732TE (8C/16T, 3.90 GHz, 52W) Intel® Xeon® D-1715TR (4C/4T, 2.40 GHz, 50W) Intel® Xeon® D-1712TR (4C/4T, 2.00 GHz, 40W)
Chipset	Integrated with Intel® SoC
Memory	DDR4 2400MHz SODIMM x 2, up to 64GB
Onboard Storage	—
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Dimension	4.92" x 3.75" (125mm x 95mm)
Security	TPM 2.0
Power	
Power Requirement	+12V and +5VSB for ATX, +12V for AT
Power Type	AT/ATX
Power Consumption (Typical)	Intel® Xeon® D-1746TER, 7.75A @+12V
Display	
Graphics Controller	—
Video Output	—
I/O	
Ethernet	Intel® I210-IT GbE x 1 10GbE x 4 (Base-KR to Carrier Board)
Audio	—
USB Port	USB 2.0 x 4, USB 3.2 Gen 1 x 4
Serial Port	2-Wire UART x 2 (Tx/Rx)
HDD Interface	SATA III x 2
Expansion	PEG 4.0 [x16] x 1 PCIe 3.0 [x2] x 8 LPC x 1
GPIO	8-bit
SMBus/I2C	I2C x 1 (Windows® 10 Ready), SMBus x 1

Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
EMC	CE/FCC Class A
OS Support	Windows® 10 (64-bit) Linux Ubuntu 20.04/Kernel 5.4
Weight	0.44 lb. (0.20Kg)

Packing List

- COM-ICDB7

Optional Accessories

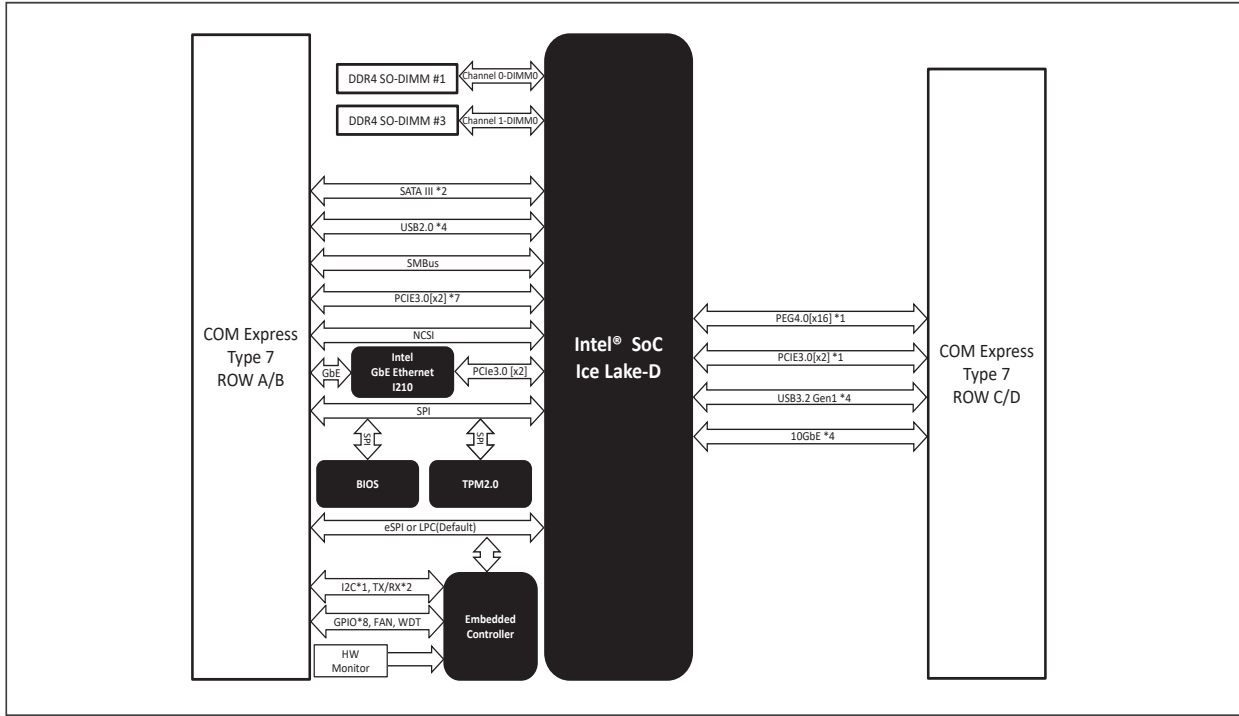
Part Number	Description
ECB-927A-A10-0001	COMe T7 Carrier Board. 4x10G via x557. 4USB3.PEG+PCIe.2COM.2SATA.AT/ATX.Rev A1.0
COM-ICDB7-HSP01	Heat Spreader.125mm x 95mm x 11mm.Black
COM-ICDB7-FAN01	Cooler.125mm x 95mm x 50mm.4pin

COM-ICDB7

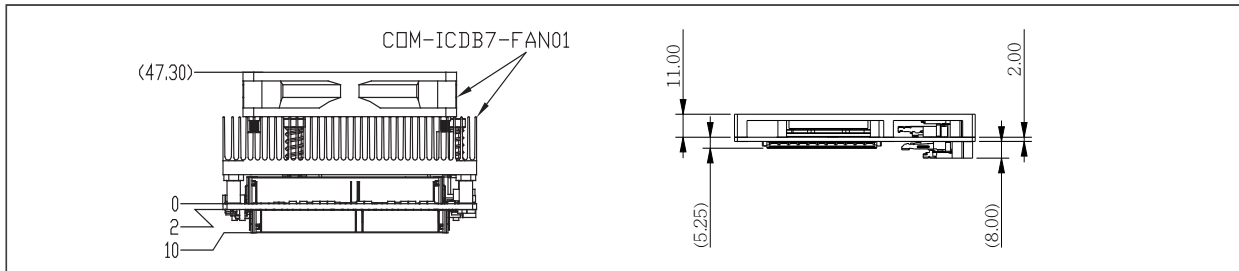
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COM Express CPU Modules

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
COM-ICDB7-A10-0001	Type 7	Intel® Xeon® D-1746TER	DDR4 SODIMM x 2	Yes	—	SATA III x 2	Intel® I210-IT x 1 10GbE x 4	USB 3.2 Gen 1 x 4 USB 2.0 x 4	2-Wire UART x 2 (Tx/Rx)	PCIe [x2] x 8 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-ICDB7-A10-0002	Type 7	Intel® Xeon® D-1735TR	DDR4 SODIMM x 2	Yes	—	SATA III x 2	Intel® I210-IT x 1 10GbE x 4	USB 3.2 Gen 1 x 4 USB 2.0 x 4	2-Wire UART x 2 (Tx/Rx)	PCIe [x2] x 8 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-ICDB7-A10-0003	Type 7	Intel® Xeon® D-1732TE	DDR4 SODIMM x 2	Yes	—	SATA III x 2	Intel® I210-IT x 1 10GbE x 4	USB 3.2 Gen 1 x 4 USB 2.0 x 4	2-Wire UART x 2 (Tx/Rx)	PCIe [x2] x 8 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-ICDB7-A10-0004	Type 7	Intel® Xeon® D-1715TER	DDR4 SODIMM x 2	Yes	—	SATA III x 2	Intel® I210-IT x 1 10GbE x 4	USB 3.2 Gen 1 x 4 USB 2.0 x 4	2-Wire UART x 2 (Tx/Rx)	PCIe [x2] x 8 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-ICDB7-A10-0005	Type 7	Intel® Xeon® D-1712TR	DDR4 SODIMM x 2	Yes	—	SATA III x 2	Intel® I210-IT x 1 10GbE x 4	USB 3.2 Gen 1 x 4 USB 2.0 x 4	2-Wire UART x 2 (Tx/Rx)	PCIe [x2] x 8 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI

Note: All specifications are subject to change without notice.

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