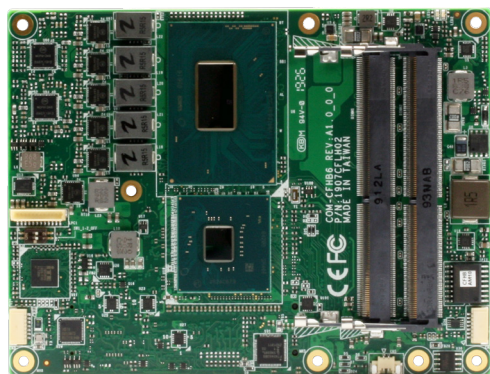


COM-CFHB6

COM Express Type 6 Basic Size with 8th/9th Gen Intel® Core™/Xeon® E Processors



Features

- DDR4 2666MHz SODIMM x 3, up to 96GB (ECC by SKU)
- VGA x 1, LVDS x 1, DDI x 2
- USB 2.0 x 8, USB 3.2 Gen 2 x 4
- PCIe [x1] x 8, PCIe [x16] x 1
- Intel® I219-LM GbE x 1
- COM Express Type 6, 4.92" x 3.75" (125mm x 95mm)



Distributed by:



Specifications

System	
Form Factor	COM Express Basic Size, Type 6
CPU	9th Generation Intel® Core™ Processors: Intel® Core™ i7-9850H (6C/12T, 1.90 GHz, 25W) Intel® Core™ i7-9850HE (6C/12T, 2.70 GHz, 45W)
	8th Generation Intel® Core™ Processors: Intel® Core™ i7-8850H (6C/12T, 2.60 GHz, 45W) Intel® Core™ i5-8400H (4C/8T, 2.50 GHz, 45W) Intel® Core™ i3-8100H (4C/4T, 3.00 GHz, 45W)
	Intel® Xeon® E Processors: Intel® Xeon® E-2176M (6C/12T, 2.70 GHz, 45W) Intel® Xeon® E-2276ME Processor (6C/12T, 2.80 GHz, 45W)
Chipset	Intel® QM370 Intel® CM246
Memory	DDR4 2666MHz SODIMM x 3, up to 96GB (ECC by SKU)
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 (Optional)
Power	
Power Requirement	+12V and +5VSB for ATX, +12V for AT
Power Type	AT/ATX
Power Consumption (Typical)	Intel® Xeon® E-2276ME, 4.65A @+12V
Display	
Graphics Controller	Intel® UHD Graphics 630 Intel® UHD Graphics P630
Video Output	3 Simultaneous Displays: 18/24-bit Single/Dual-Channel LVDS x 1, up to 1920 x 1080 DDI x 2, up to 3840 x 2160 VGA x 1, up to 1920 x 1080

I/O	
Ethernet	Intel® I219-LM GbE x 1
Audio	High Definition Audio Interface
USB Port	USB 2.0 x 8, USB 3.2 Gen 2 x 4
Serial Port	2-Wire UART x 2 (Tx/Rx)
HDD Interface	SATA III x 4
Expansion	PEG 3.0 [x16] x 1
	PCIe 3.0 [x1] x 8 LPC x 1
GPIO	8-bit
SMBus/I2C	I2C x 1, 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 18.04.3/Kernel 5.0
Weight	0.44 lb. (0.20Kg)

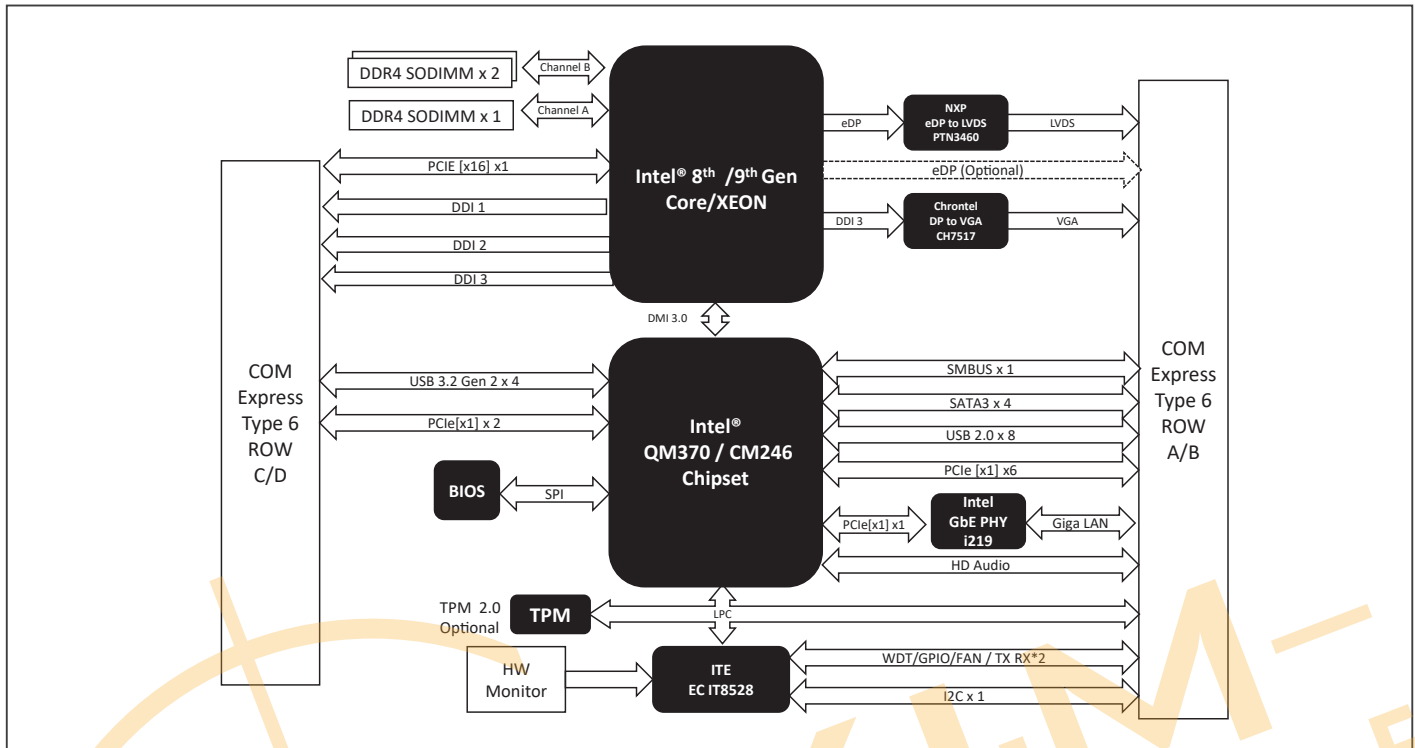
Packing List

- COM-CFHB6

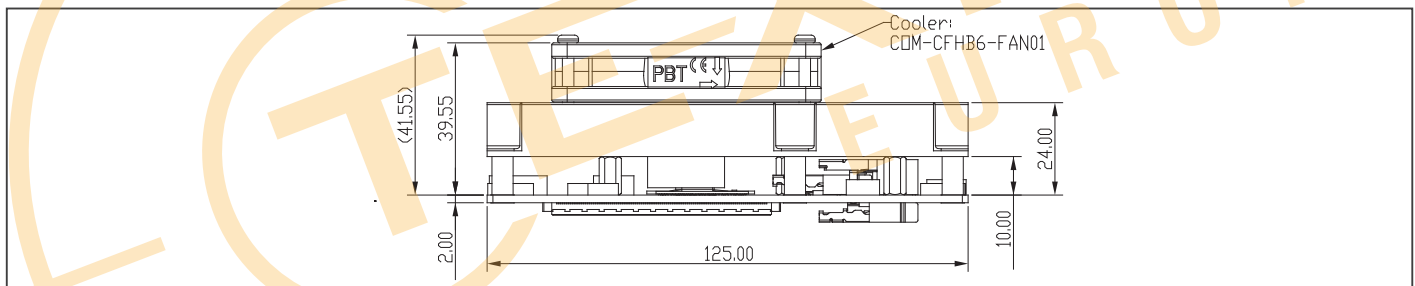
Optional Accessories

Part Number	Description
ECB-920A-A11-0001	COMe Type 6/10 Carrier Board. ATX. 2.5GbE. 8USB. 2COM. 4SATA. PCIe. AT/ATX. Rev. A1.1
COM-CFHB6-FAN01	Cooler. 125mm x 95mm x 42mm. 3pin. for COM-CFHB6
COM-CFHB6-HSP01	Heat Spreader. 125mm x 95mm x 11mm. Black

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-CFHB6-A11-0001	Type 6	Intel® Xeon® E-2176M	DDR4 SODIMM x 3	Yes	VGA x 1, DDI x 2	SATA III x 4	Intel® I219-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 6 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-CFHB6-A11-0002	Type 6	Intel® Core™ i7-8850H	DDR4 SODIMM x 3	—	VGA x 1, DDI x 2	SATA III x 4	Intel® I219-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 6 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-CFHB6-A11-0003	Type 6	Intel® Core™ i5-8400H	DDR4 SODIMM x 3	—	VGA x 1, DDI x 2	SATA III x 4	Intel® I219-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 6 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-CFHB6-A11-0004	Type 6	Intel® Core™ i3-8100H	DDR4 SODIMM x 3	Yes	VGA x 1, DDI x 2	SATA III x 4	Intel® I219-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 6 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-CFHB6-A11-0005	Type 6	Intel® Xeon® E-2276ME	DDR4 SODIMM x 3	Yes	VGA x 1, DDI x 2	SATA III x 4	Intel® I219-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 6 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-CFHB6-A11-0006	Type 6	Intel® Xeon® E-2276ME	DDR4 SODIMM x 3	—	VGA x 1, DDI x 2	SATA III x 4	Intel® I219-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 6 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-CFHB6-A11-0007	Type 6	Intel® Core™ i7-9850HE	DDR4 SODIMM x 3	—	VGA x 1, DDI x 2	SATA III x 4	Intel® I219-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 6 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI
COM-CFHB6-A11-0008	Type 6	Intel® Core™ i7-9850HL	DDR4 SODIMM x 3	—	VGA x 1, DDI x 2	SATA III x 4	Intel® I219-LM x 1	USB 3.2 Gen 2 x 4 USB 2.0 x 8	2-Wire UART x 2 (Tx/Rx)	PCIe [x1] x 6 PEG [x16] x 1	12V	0°C ~ 60°C	LPC, GPIO 8-bit, I2C, SMBus, SPI

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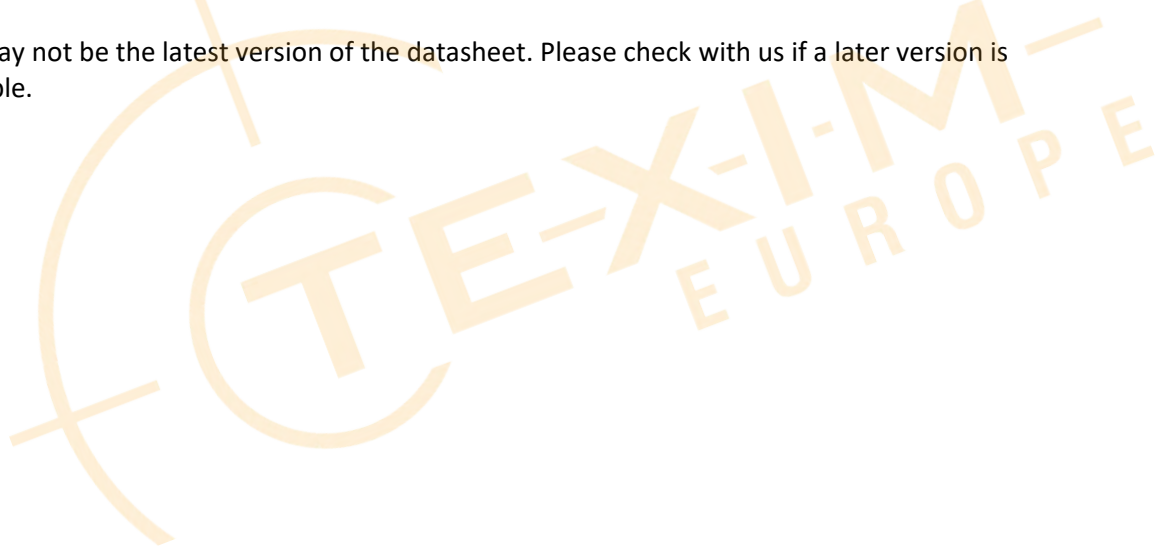
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com



The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

T: +32 (0)2 462 01 00
E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
E: uk@texim-europe.com



Germany

Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com



Austria

Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
E: austria@texim-europe.com



Nordic

Stockholmsgade 45
2100 Copenhagen

T: +45 88 20 26 30
E: nordic@texim-europe.com



Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com