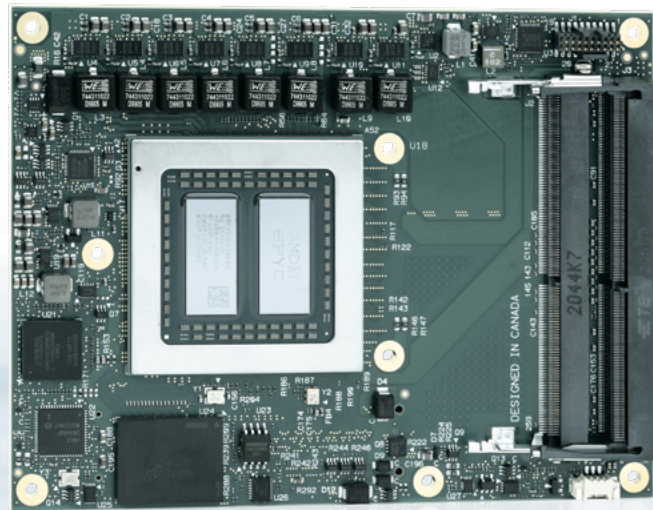


# COMe-bEP7(E2)

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## COM Express® Basic Type 7 with AMD EPYC™ Embedded 3000 SoC Processors

- ▶ Supports Single-Die SP4r2 (up to 8 cores) and Dual-Die SP4 (up to 16 core) processors
- ▶ Quad 10GbE interfaces
- ▶ 4x SODIMM sockets (up to 128 GByte DDR4 memory) on request
- ▶ Industrial grade versions

POSSIBILITIES START HERE

## TECHNICAL INFORMATION

	SP4R2 (SINGLE-DIE)	SP4 (DUAL-DIE)
COMPLIANCE	COM Express® Basic, Pin-out Type 7	
DIMENSIONS (H x W x D)	95 x 125 mm	
CPU	Commercial Temperature: AMD E3101 4C/4T, 35 W TDP, 2.1 GHz (2.9 GHz) AMD E3151 4C/8T, 45 W TDP, 2.7 GHz (2.9 GHz) AMD E3201 8C/8T, 30 W TDP, 1.5 GHz (3.1 GHz) AMD E3251 8C/16T, 55 W TDP, 2.5 GHz (3.1 GHz)  Industrial Temperature: AMD E3255 8C/16T, 30-55 W TDP, 2.0/2.5 GHz (3.1 GHz)	AMD E3351 12C/24T, 65-80 W TDP, 1.9 GHz (3.0 GHz) AMD E3451 16C/32T, 85-100 W TDP, 2.45 GHz (3.0 GHz)
MAIN MEMORY	2x DDR4 SODIMM for up to 64 GByte non-ECC/ECC memory	2x DDR4 SODIMM for up to 64 GByte non-ECC/ECC memory 4x DDR4 SODIMM for up to 128 GByte on request
ETHERNET CONTROLLER	Internet i210	
HARD DISK	2x SATA	
PCI EXPRESS® / PCI SUPPORT	24x PCIe Gen 3.0	32x PCIe Gen 3.0
USB	4x USB 3.1, 4x USB 2.0	
SERIAL	2x serial interface	
COMMON FEATURES	SPI Flash, LPC, SMB, Dual Staged Watchdog, RTC	
ON REQUEST		NVMe Support
POWER MANAGEMENT	OS ACPI PM support for Critical Shutdown	
POWER SUPPLY	ATX, 8.5V- 20 V Wide Range Single Supply	
SPEACIAL FEATURES	TPM	
HUMIDITY	93 % relative Humidity at 40 °C, non-condensing	
TEMPERATURE	Commercial Grade Version: 0 °C to 60 °C Industrial Grade Version: -40 °C to 85 °C	
BIOS	AMI UEFI	
OPERATING SYSTEM	Linux x64 – Ubuntu Windows Server x64 2016	
SUPPORTED MODULES	COMe-bEP7 xxxxx commercial grade COMe-bEP7 E2 xxxxx industrial grade	

## CPU VARIANTS

	SP4R2				SP4		
PROCESSOR NUMBER	E3101	E3151	E3201	E3251	E3255	E3351	E3451
TDP	35 W	45 W	30 W	55 W	25-55 W	65-80 W	85-100 W
CORES	4	4	8	8	8	12	16
THREADS	4	8	8	16	16	32	32
CACHE	8 MByte	16 MByte	16 MByte	16 MByte	16 MByte	32 MByte	32 MByte
BASE FREQ	2.1 GHz	2.7 GHz	1.5 GHz	2.5 GHz	2.0/2.5 GHz	1.9 GHz	2.45 GHz
MAX TURBO FREQ	2.9 GHz	2.9 GHz	3.1 GHz	3.1 GHz	3.1 GHz	3.0 GHz	3.0 GHz
MEMORY CHANNEL	2	2	2	2	2	2	2
SATA	8	8	8	8	8	16	16
EXTEND TEMP	no	no	no	no	yes	no	no



## ► COOLING

ARTICLE	PART NO.
HSP COMe-bEP7 THREADED	68010-0000-99-0
HSP COMe-bEP7 THROUGH	68010-0000-99-1

## ► MEMORY

PART NO.	MIN. SPEC.	SIZE	ECC/NON-ECC	OP. TEMPERATURE
97020-0827-BEP7*	DDR4-2666	8 GByte	non-ECC	0 °C - 60 °C
97020-1627-BEP7*	DDR4-2666	16 GByte	non-ECC	0 °C - 60 °C
97020-3227-BEP7*	DDR4-2666	32 GByte	non-ECC	0 °C - 60 °C
97021-0827-BEP7*	DDR4-2666	8 GByte	non-ECC	-40 °C - 85 °C
97021-1627-BEP7*	DDR4-2666	16 GByte	non-ECC	-40 °C - 85 °C
97021-3227-BEP7*	DDR4-2666	32 GByte	non-ECC	-40 °C - 85 °C
97030-0827-BEP7	DDR4-2666	8 GByte	ECC	0 °C - 60 °C
97030-1627-BEP7	DDR4-2666	16 GByte	ECC	0 °C - 60 °C
97030-3227-BEP7	DDR4-2666	32 GByte	ECC	0 °C - 60 °C
97031-0827-BEP7	DDR4-2666	8 GByte	ECC	-40 °C - 85 °C
97031-1627-BEP7	DDR4-2666	16 GByte	ECC	-40 °C - 85 °C
97031-3227-BEP7	DDR4-2666	32 GByte	ECC	-40 °C - 85 °C

\* On Request

## ► ACCESSORIES

PART NUMBER	DESCRIPTION
<b>MOUNTING</b>	
38017-0000-00-5	COMe Mount KIT 5 mm 1 set
38017-0100-00-5	COMe Mount KIT 5 mm 100 sets
38017-0000-00-0	COMe Mount KIT 8 mm 1 set
38017-0100-00-0	COMe Mount KIT 8 mm 100 sets
<b>ADAPTER/CABLES</b>	
38019-0000-00-0	ADA-COMe-Height-dua
96079-0000-00-0	KAB-HSP 200 mm
96079-0000-00-2	KAB-HSP 40 mm

## ► YOUR CONTACT

### Kontron America Inc.

9477 Waples Street  
San Diego, CA 92121,  
USA  
Tel.: +1 888 294 4558  
sales@us.kontron.com

[www.kontron.com](http://www.kontron.com)

## GLOBAL HEADQUARTERS

### Kontron Europe GmbH

Gutenbergstraße 2  
85737 Ismaning, Germany  
Tel.: +49 821 4086-0  
Fax: +49 821 4086-111  
info@kontron.com

[www.kontron.com](http://www.kontron.com)