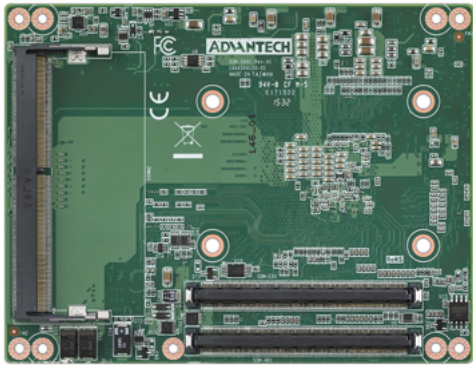
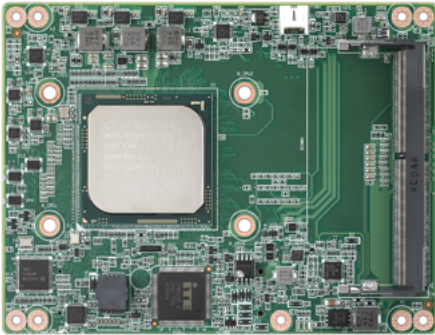


SOM-5991 Intel Xeon Processor COM Express



Intel® Xeon® Processor D-1500 Product Family

fCOM Express R2.1 Basic Module, Type 6 pin out compatible

fUp to 16 core with TDP 45W

fDual DDR4 2400, 1.2V Low Power Memory, up to 32GB

fIntegrated high speed 10GbE interface

fPCIe x16, 8 PCIe x1, 2 x 10GBASE-KR interface

SOM-5991 is based on Intel Broadwell-DE with two 10GbE support on COM Express Basic module.

Specifications

SOM Type:

COM Express Modules

Processor

Intel® Xeon® Processor D-1500

Clock Speed:

2.6 GHz

Real Time Clock:

Processor Misc.:

Xeon D-1548 8xCore 2GHz (2.6GHz Turbo) 45W

Xeon D-1537 8xCore 1.7GHz (2.3GHz Turbo) 35W

Pentium D1517 4xCore 1.6GHz (2.2GHz Turbo) 25W

Pentium D1508 2xCore 2.2GHz (2.6GHz Turbo) 25W

Memory

BIOS/ Bootloader:

EFI Bios

Memory Misc.:

No Memory included, up to 32GB of DDR4 Memory supported, Dual channel memory requires 2 Matched DDR4 Modules.

Primary I/O

GPIO:

8x GPIO

Disk Interface:

4x SATA III

Video Out:

none on-board.

SPI:

Yes (BIOS only)

Audio:

none

Ethernet:

2 x 10GBASE-KR & 1x Intel® i210AT 10/100/1000 Mbps

USB:

4x USB 3.0 & 4x USB 2.0

Serial Ports:

2x COM (2-Wire)

I2C:

Support 100Kb/s & 400Kb/s devices. Default master mode

optional slave mode

Watchdog:

Primary I/O Misc.:

TPM (option) TPM2.0

Secondary I/O

LEDs:

Keypad:

PS/2:

Expansion

Bus Misc.:

PCI Express x16: 1 port support up to Gen3 8.0 GT/s Bifurcatable to 2 x8, 1 x8 & 2 x4, or 4 x4

PCI Express x1: 8 ports support up to Gen2 5.0 GT/s

Analog

A/D:

D/A:

Dimensions

Dimensions:	
4.92 × 3.74 in	
Power Requirements	
Power Misc.:	
Type ATX: Vin, VSB, AT: Vin	
Supply Voltage Vin: 8.5(9-5%)~20V(19+5%), VSB: 5V±5%, RTC Battery: 2.0-3.3V	
Power Consumption (Max.) TBD	
Power Consumption (Idle) TBD	
Environmental	
Low Operating Temperature:	
0 C	
High Operating Temperature:	
60 C	
Upper Operating Humidity:	
95%	
Environmental Misc.:	
Wide temperature operation optional	
Pricing	
SOM-5991X8-U0A1E	
SOM-5991X8-U0A1E, Xeon D-1548 8xcore 2.0 GHz, 4xSATAIII, 4x USB3, 4x USB2, 1xGbE, 2x10GbE-KR	
\$1,270.00	
Order:	
0	
Parent Product:	
SOM-5991	
Base Product:	
SOM-5991	
SOM-5991P2-S1A1E	
SOM-5991P2-S1A1E, Pentium D1508 2xcore 2.2 GHz, 4xSATAIII, 4x USB3, 4x USB2, 1xGbE, 2x10GbE-KR	
\$0.00	
Order:	
0	
Parent Product:	
SOM-5991	
Base Product:	
SOM-5991	
Non-Stock NCNR:	
0	

Source URL: <https://www.emacinc.com/content/som-5991-intel-xeon-processor-com-express>