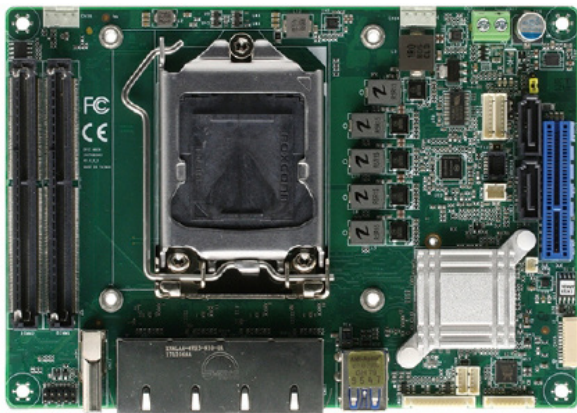# ONYX EPIC-KBS9

EPIC Board with 6th/7th Generation Intel® Core™ i-S series Processor (Socket Type)

Features

- 6th/7th Generation Intel® Core™ i-S series Processor (Socket Type)
- DDR4 (Non-ECC) SODIMM x 2, 2133MHz, up to 32G
- VGA (Internal)/HDMI Display
- USB 3.2 Gen 1 x 2 (Rear IO), USB 2.0 x 2 (Internal)
- mSATA/Mini-PCIe Full Size x 1
  (Default: mSATA, Optional for Mini-PCIe by BOM Change)
- Audio Codec with Amp, SATA 6.0 Gb/s x 2, GPIO x 8, RS-232/422/485 x 2 (Internal)
- 12V Only

Specifications

System

Form Factor	4" EPIC Board
CPU	CPU Socket Type
CPU Frequency	6th/7th Generation Intel® Core™ i3/i5/i7/Celeron® (Support up to 65W SKU)
Chipset	H110/H170/Q170 (6W)
Memory Type	DDR4 (Non-ECC) SODIMM x 2, 2133MHz, up to 32GB
Memory Capacity	Up to 32 GB
BIOS	AMI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12V, AT/ATX
Power Supply Type	AT / ATX
Power Consumption	—
Dimension (L x W)	4.53" x 6.50" (115mm x 165mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MFTB (Hours)	—
Certification	CE / FCC

Display

VGA / LCD Controller	6th/7th Generation Intel® Core™ i3/i5/i7/Celeron®
Video Output	HDMI (Rear), VGA (Internal Only)
Backlight Inverter Supply	—

I/O

Ethernet	Intel® i211 Gigabit Ethernet x 4
Audio	ALC269 (With Amp)
USB Port	USB 3.2 Gen 1 x 2 (Real IO) USB2.0 x 2 (Internal)
Serial Port	COM x 2 (All Internal), RS-232/422/485
Parallel Port	—
HDD Interface	SATA 3.0 x 2
SSD	mSATA x 1 (Full size)
Expansion Slot	Mini-card x 1 (Full Size) (No SIM), PCIe[x4] Slot x 1
DIO	8-bit
SIM	—
TPM	—
Touch	—