



**TRENTON  
SYSTEMS**  
Rugged Computers

**TKL8255**  
Single Board  
Computer

## XEON OR 6TH GEN CORE PERFORMANCE

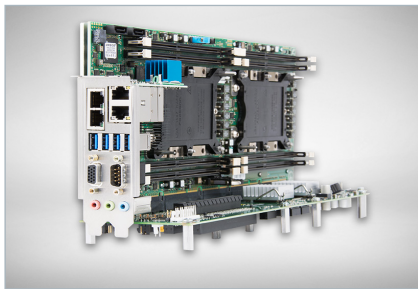
**PICMG 1.3 Series Architecture delivers 20 lanes of PCIe to a compatible Backplane**

**Ruggedized, designed and made in USA single board computer for demanding applications**

DDR4-2400 64 ECC unregistered memory with a wide operating temperature range, integral ruggedization features, and a wide range of industry standard high performance and legacy I/O.

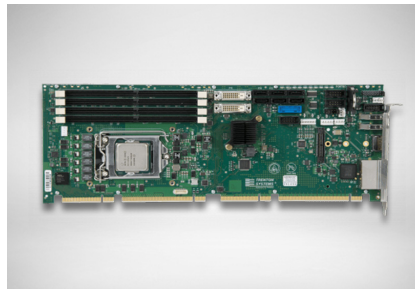
The TKL8255 is designed to tackle the widest range of industrial and embedded computing challenges.

### PRODUCT DETAILS



#### **NVMe M.2 Drive Support**

Single CPU deliver high performance and 10+ years of availability for embedded applications.



#### **20 Lanes of PCIe Gen 3**

Pair with a compatible HDEC Series Backplane to integrate large numbers of COTS PCIe cards.



#### **Aluminum Backing Plate**

0.125" thick Aluminum backing plate puts an end to board flexing.



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

Check out our website for configuration options.

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## Model Number

TKL8255

## Form Factor

PICMG® 1.3 Form Factor – 20 PCIe link 3.0 configurations.

## Environmental

**Temperature:** -10° C to 50° C (operating)\* and -40° C to 70° (storage) \*processor dependent - extended temperature ranges may be available.

**Humidity:** 5% to 90% non-condensing

Environmental ratings assume 350LFM of airflow across the board. Additional cooling solutions may be available. Contact Trenton for more information.

## Processors

Model	Processor	Cores	Threads	Clock Speed	TDP
92-825507200000	E3-1275 v6	4	8	3.8GHz	73W
92-825507300000	E2-1245 v6	4	8	3.7GHz	73W
92-825500600000	E3-1275 v5	4	8	3.6GHz	80W
92-825502200000	E3-1268L v5	4	8	2.3GHz	35W
92-825507700000	E3-1225 v6	4	4	3.3GHz	73W
92-825501300000	E3-1225 v5	4	4	3.3GHz	80W
92-825508800000	Core i7-7700	4	8	3.6GHz	65W
92-825508600000	Core i7-7700T	4	8	2.9GHz	35W
92-825503500000	Core i7-6700	4	8	3.4GHz	65W
92-825509300000	Core i5-7500	4	4	3.2GHz	65W
92-825509100000	Core i5-7500T	4	4	2.7GHz	35W
92-825504500000	Core i5-6500	4	4	3.2GHz	65W
92-825509700000	Core i3-7101TE	2	4	3.4GHz	35W
92-825506300000	Core i3-6100TE	2	4	2.7GHz	35W

## Memory

8x 288-pin RDIMM slots supporting DDR4-2666 ECC memory up to 1TB\*

\*Speed and capacity processor dependent. Registered DIMMs are required for use on the SEP8253.

## Chipset

Intel® C236 Platform Controller Hub (PCH) (PCH-H, "Greenlow")

## I/O

**Rear Bracket:** 1 - DisplayPort 1.3; 2 - 10/100/1000 Base-T Ethernet; 2 - USB 3.0

**Routed to Backplane:** 20 - PCIe 3.0 Links; 1 - PCI (32bit, 33MHz); 1 - 10/100/1000 Base-T Ethernet; 4 - USB2

**Onboard:** 6 - SATA/600 ports with RAID; 8 - USB interfaces (2 - USB3 and 2 - USB2); 2 - DVI-D, dual DVI-D connector I/O bracket (part number 198500001166-00) simplifies dual DVI-D video integration; 1 - x4 PCIe 3.0 M.2 slot supports standard NVMe SDD Socket 2/B-keyed or Socket 3/M-keyed modules; HD Audio - Audio interface board (part no. 92-677700000000) simplifies rear system I/O bracket integration; Serial Port Header 1: RS232/422/485; Serial Port Header 2: RS232



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