PXI Express Embedded Controller

The nVent SCHROFF PXIe embedded controller is the most compact and powerful 3U one-slot embedded controller for the PXI Express and CPCIexp platforms. With its huge and future-ready interface capabilities, it runs perfectly with most test and measurement applications. The Controller is driven by a 11th generation Intel® Core™ i3 / i5 processors combined with up to 64GB DDR4 memory and easily supports high bandwidth applications with future ready PCIe Gen4 and dual 2500BASE-T system interconnectivity.

Product Features

- PXI™-5 PXI Express hardware spec. Rev.2.0 compliant
- Maximum system throughput 14 GB/s[1]
- Upgradeable m.2 NVMe and DDR4 Storage
- 11th Gen Intel® Core™ (Tiger Lake) with PCIe Gen4
- Most compact form factor for versatile applications
- Full customizable AMI Aptio® Embedded BIOS

[1] 4-Link mode configuration x4 x1 x4 x1
2-Link mode configuration x4 x4
PCIe Gen4 / PCIe Gen3

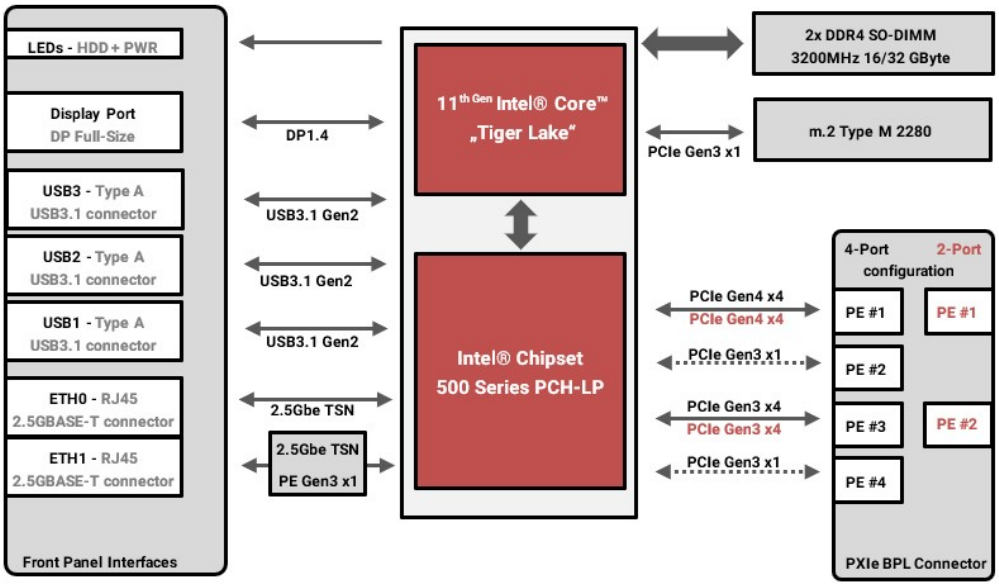
Controller Capabilities	
CPU	i3-1115G4E 2x 2.2 GHz, 6 MB Cache i5-1145G7E 4x 1.5 GHz, 12 MB Cache
Chipset	RM590E/QM580E/HM570E
DRAM[2]	16/32 GB 3200 MHz DDR4
Graphics	Integrated Xe (Gen12) graphics with 96 EU
Storage[2]	m.2 Type M NVMe Samsung EVO980PLUS
I/O ports	2x 2.5GBASE-T , 2x USB3.1 Type A, DP 1.4
Power	Peak: 45W TDP: 20 W

[2] Assembly options DDR4 16/32/64 GB
Storage 0.5/1/2 TB

Mechanical Parameters	
Form Factor	3 U, 1 Slot PXIe/CPCIexp System Slot
Dimensions	20.3 x 128.7 x 213.2 mm
Weight	0.38 kg

Environmental	
Operating[3]	0…+45 °C @ 10-90 % non-condensing
Storage[3]	-20…+80 °C @ 10-90 % non-condensing

[3] Industrial Grade option Operating -40…+70°C
Storage -40…+85°C



Order Information	Order Number
Embedded Controller - PXIE EC V3 CG I3-1115G4E 16-512 CTR	21265-120
Embedded Controller - PXIE EC V3 CG I5-1145G7E 32-1024 CTR	21265-124

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