

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 CPCLexp 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

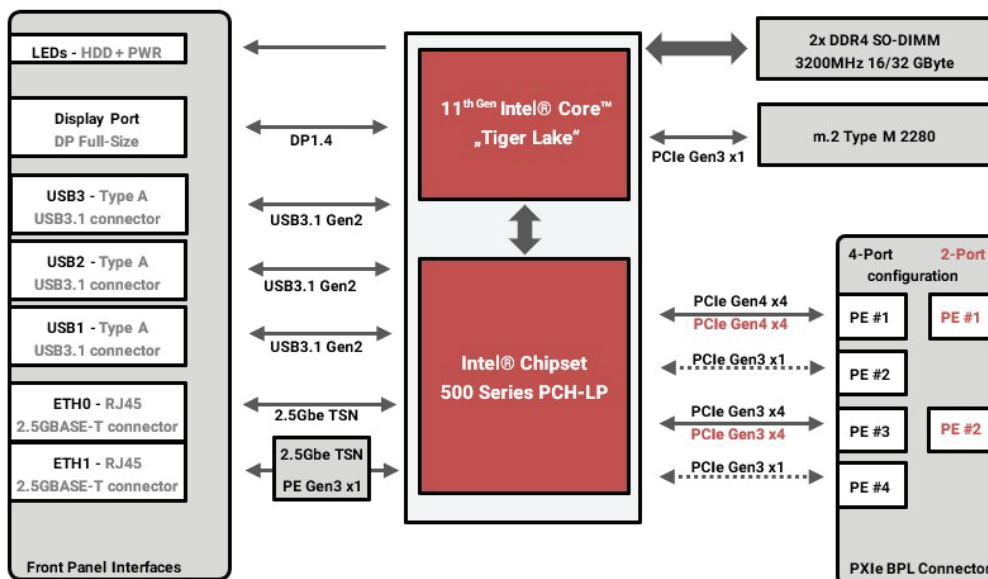
Mechanical Parameters

Form Factor	3 U, 1 Slot PXIe/CPCLexp 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

Embedded Controller - PXIE EC V3 CG I3-1115G4E 16-512 CTR
Embedded Controller - PXIE EC V3 CG I5-1145G7E 32-1024 CTR

Order Number

21265-120
21265-124