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GE
Intelligent Platforms



SCVPX3U

3U VPX Starter Cage

Features

- 3U VITA 46.0 backplane
- Five 3U VPX slots
- IEEE Std 1101.10 compliant card frame
- 650 W power-factor-corrected, auto-ranging PSU
- Adjustable forced-air cooling
- Configurable rear and front I/O panels
- System reset switch
- Rackmount provision
- 2x 250 GB SATA HDD

The SCVPX3U is a five slot 3U VPX starter enclosure offered by GE Intelligent Platforms to address the requirements of VPX development. By using the SCVPX3U as a development system, the integrator can significantly reduce time-to-market by developing the application on the actual system hardware while the final "rugged" system is being manufactured in parallel.

The SCVPX3U comprises a backplane, card cage, PSU, cooling fan, 2x 250 GB SATA HDD and all internal wiring. This layout permits a developer to incorporate a variety of payload boards, accessible from the front of the enclosure, with any associated rear transition modules and wiring. The enclosure's rear panels contain I/O areas that can accept industry-standard 3U or 6U I/O panels.

The fabric connectivity is entirely configurable by the user by means of industry-standard PCIe cables.

P0 connector - power delivery, utilities, geographical addressing

P1 connector - uncommitted; board I/O through RTM

P2 connector - uncommitted; board I/O through RTM
The SCVPX3U supports GE's range of 3U VPX cards including the these below – but check the GE Intelligent Platforms website for the latest offerings.

Single Board Computers

SBC310 Power Architecture 8640D

SBC312 Power Architecture P4080

SBC330 Power Architecture 8641D

SBC320 Intel® Architecture Core™2 Duo

SBC324 Intel Architecture 2nd Generation Core™ i7

SBC325 Intel Architecture 3rd Generation Core i7

SBC341 Intel Architecture Core 2 Duo

Mezzanine Carrier / PCIe Switch

PEX430 PMC / XMC / PCIe Switch

Graphics

GRA110 Nvidia G73

GRA111 Nvidia GT240 (CUDA Capable)

GRA112 NVIDIA EXK107 Kepler (CUDA Capable)

Gigabit Ethernet Switch

GBX410 12 port switch

Mass Storage

SDD910 SATA Disk Drive module

SCVPX3U – 3U VPX Starter Cage

Specifications

Form Factor
- 7U height
- 84HP width

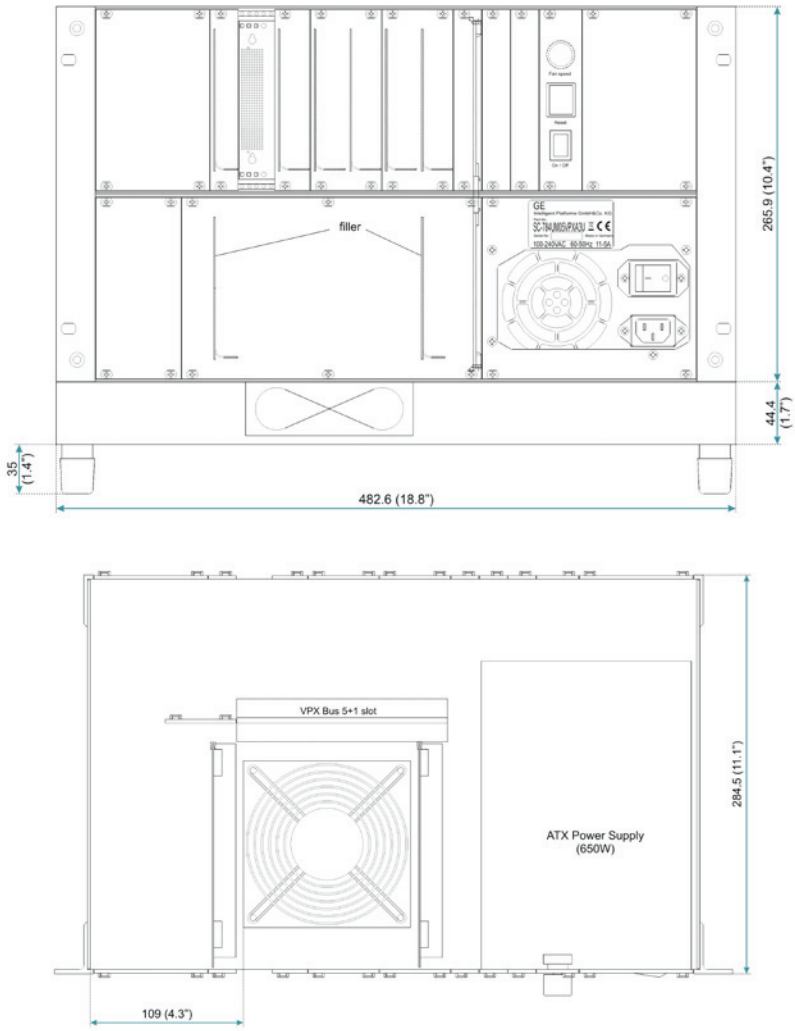
3U VITA 46 Backplane
- 5-slot 3U VPX
- 1" pitch slot width

Rear I/O
- Each board has rear transition module to break out into standard commercial connectors

Temperature
- Operating Temperature: 0°C to +40°C
- Storage temperature: -20°C to +70°C
- Humidity (non-condensing): 5% – 95%

Electrical Specification
- Input voltage 90 to 264 V AC
- 47 to 63 Hz

Mechanical Outline



About GE Intelligent Platforms

GE Intelligent Platforms is a division of GE that offers software, control systems, services, and expertise in automation and embedded computing. We offer a unique foundation of agile and reliable technology providing customers a sustainable competitive advantage in the industries they serve, including energy, water, consumer packaged goods, oil and gas, government and defense, and telecommunications. GE Intelligent Platforms is headquartered in Charlottesville, VA. For more information, visit www.ge-ip.com.

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