# CRS-D5I-3VC1 COTS Rugged System

## High Performance Video Display Processing System

### Features

- COTS rugged convection cooled chassis
  - 3U VPX
  - 5 slots
- 2x 10 GB Optical Fibre Interfaces
- 4 DVI Ports
- Power supply
  - MIL-STD-1275
  - MIL-STD-704
- Target applications include:
  - 360° Situational Awareness
  - Hyper-spectral Analysis
  - Radar Processing
  - Sonar Processing
  - Embedded Trainer

GE Intelligent Platforms CRS-D5I-3VC1 is a rugged COTS pre-validated video display processing unit that provides a rugged and highly flexible COTS video display platform suited for mission applications requiring rock-solid reliability such as ground vehicles and manned aircraft.

GE's CRS-D5I-3VC1 can be deployed in the field as soon as your application is ready, or use it as a starting point for multiple application-specific configurations.

This system is available in two versions. One with the gigabit Ethernet video ingest processor framework software. Also the Tilera® Linux operating system comes pre-loaded on this configuration. The other option comes without the software development kit and board support package. This version will not come with a pre-loaded operating system.

The arduous task of integrating off the shelf boards has already been done for you—shortening your time to project completion. You have one point of contact for all issues and a single part number—not a collection of parts.

This video display processing unit successfully integrates GE's boards, and modules, drawn from its wide selection of COTS boards, into open modular systems that are tested and qualified for rugged systems deployment. The CRS-D5I-3VC1 contains a fully integrated set of boards and modules designed to fulfill video display applications.

GE Intelligent Platforms' Systems Group is fully compliant with AS9100 processes and brings years of experience designing rugged systems to your project. Our world class program management competencies are tailored to help mitigate your risk.

GE conducts all design, analysis, manufacturing and testing in strict accordance with appropriate MIL and industry standards such as MIL-STD-810, 704, 461, 1275, and 1472.

To help jump start your project, GE offers Laboratory Development Units, or starter kits, preconfigured for development purposes.

# CRS-D5I-3VC1 COTS Rugged System

## Specifications

**Chassis**
- VPX 5-Slot Convection Cooled

**Memory**
- Up to 8GB DDR3 and 32GB NAND Flash

**I/O**
- Audio – x1
- COM Ports – x2
- USB Ports – x4
- Ethernet Ports – 1x1000BaseT
- Fibre Optic Channels – 2x10GigE
- Displays – 4xRGB/DVI/HDMI

**Power**
- 28V DC
- MIL-STD-1275
- MIL-STD-704*

**Environmental**
- -40°C to +49°C
- MIL-STD-461 EMI
- MIL-STD-810

**Software**
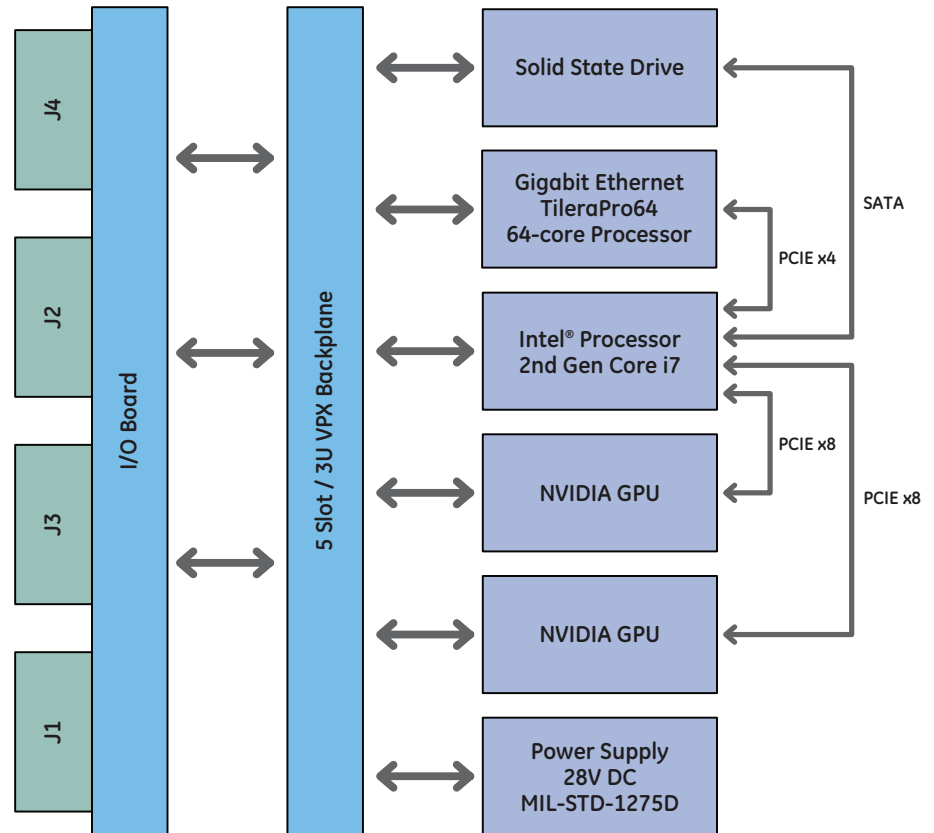- Linux

**Dimensions (H x W x D, excluding connectors)**
- 8.5 x 7.0 x 8.9 (inches)
- 216 x 178 x 226 (mm)

**Weight**
- 20 lbs (9 kg)

* Hold up time depends on processor usage.

## Block Diagram



## Ordering Information

**920-100880-000** - without SDK or BSP, OS will not be pre-loaded

**920-100880-001** - with Gigabit Ethernet video ingest processor framework software, Tilera Linux OS pre-loaded

### About GE Intelligent Platforms

GE Intelligent Platforms, a General Electric Company (NYSE: GE), is an experienced high-performance technology company and a global provider of hardware, software, services, and expertise in automation and embedded computing. We offer a unique foundation of agile, advanced and ultra-reliable technology that provides customers a sustainable advantage in the industries they serve, including energy, water, consumer packaged goods, government and defense, and telecommunications. GE Intelligent Platforms is a worldwide company headquartered in Charlottesville, VA and is part of GE Home and Business Solutions. For more information, visit www.ge-ip.com.

### GE Intelligent Platforms Contact Information

Americas: **1 800 433 2682** or **1 434 978 5100**
Global regional phone numbers are listed by location on our web site at **www.ge-ip.com/contact**

## defense.ge-ip.com/systems