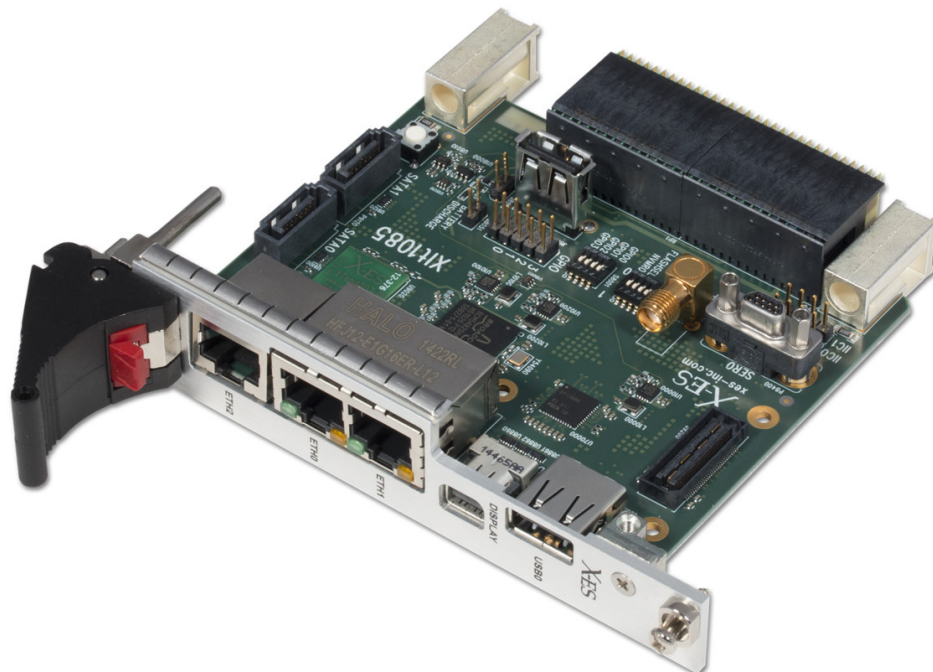


XIt1085

3U VPX Rear Transition Module with Gigabit Ethernet, SATA, USB, Serial, and DisplayPort

- ▶ 3U VPX Rear Transition Module (VITA 46.10)
- ▶ Support for X-ES' 3U VPX SBC module I/O
- ▶ One Mini DisplayPort connector for Dual-Mode DisplayPort interface
- ▶ Two SATA connectors
- ▶ One micro-DB-9 connector for an RS-232/422/485 serial port
- ▶ Two USB connectors
- ▶ Three RJ-45 connectors for 10/100/1000BASE-T ports
- ▶ 1.0 in. pitch
- ▶ Mezzanine for X12d expansion



XIt1085

The XIt1085 provides I/O expansion for 3U VPX SBCs. The XIt1085 supports one RS-232/422/485 serial port, two SATA ports, three 10/100/1000BASE-T ports, one DisplayPort interface, and two USB ports in its default configuration. Headers for GPIO and I²C are also made available.

X12d signals are brought to a connector, and an opening in the panel allows for custom mezzanine modules to be populated. When X12d modules are not used, the opening allows for internal cabling to be brought out during development.

X-ES

Extreme Engineering Solutions

...Always Fast

Extreme Engineering Solutions

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Back Panel I/O

- Three RJ-45 connectors for 10/100/1000BASE-T ports
- One USB 2.0 connector
- One Mini DisplayPort connector

Mezzanine I/O

- X12d
- Serial
- JTAG

Internal I/O

- SMA connector for 1PPS
- One USB connector
- Two SATA connectors
- One micro-DB-9 connector for a serial port
- GPIO header
- I²C header

Physical Characteristics

- 3U VPX form factor
- Mechanically compliant to VITA 46.10
- Dimensions: 100 mm x 81.5 mm
- 1.0 in. pitch

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 1
- Conformal coating available as an ordering option

| Ruggedization Level | Level 1 | Level 3 | Level 5 |
|-----------------------|--|---|--|
| Cooling Method | Standard Air-Cooled | Rugged Air-Cooled | Conduction-Cooled |
| Operating Temperature | 0 to +55°C ambient (300 LFM) | -40 to +70°C (600 LFM) | -40 to +85°C (board rail surface) |
| Storage Temperature | -40 to +85°C ambient | -55 to +105°C ambient | -55 to +105°C (maximum) |
| Vibration | 0.002 g ² /Hz (maximum), 5 to 2000 Hz | 0.04 g ² /Hz (maximum), 5 to 2000 Hz | 0.1 g ² /Hz (maximum), 5 to 2000 Hz |
| Shock | 20 g, 11 ms sawtooth | 30 g, 11 ms sawtooth | 40 g, 11 ms sawtooth |
| Humidity | 0% to 95% non-condensing | 0% to 95% non-condensing | 0% to 95% non-condensing |

