XPand1202

3U VPX VITA 67 Development Platform for Conduction-Cooled RF Modules and the Intel® Core™ i7

- Supports up to four 3U VPX (VITA 67.1) modules and one 3U VPX (VITA 67.2) module

- Development platform for conduction-cooled RF tuner modules

- Supports up to four DRS SI-9138 3U VPX dual-channel RF receiver modules

- Supports one DRS SI-7138 3U VPX frequency reference module

- Supports one XPedite7470 3U OpenVPX (VITA 65) Intel® Core™ i7 SBC

- Supports one XChange3012 3U OpenVPX (VITA 65) PCIe/GbE centralized switch

- Supports one XChange3011 3U VPX Gigabit Ethernet switch

- Forced-air-cooled sidewall heat exchangers

- Supports 0.8 in. or 1.0 in. pitch conduction-cooled VPX REDI (VITA 48.2) modules

- Customizable with X-ES and third-party components

- Provides RTM SMA bulkhead connectors

- RTM (Rear Transition Module) support for maximum I/O flexibility

- Power and reset switches and LEDs

- 110-240 VAC, 50/60 Hz power input

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The XPand1202 provides a low-cost, flexible, VITA 67 development platform. This system supports standard SBC and switch modules, as well as VITA 67 modules, making it the ideal platform for high-performance RF applications. This platform supports up to four 3U VITA 67.1, one 3U VITA 67.2, one VITA 65 SBC, one VITA 65 PCIe/GbE centralized switch, and one Gigabit Ethernet switch module. This platform supports up to four 3U VPX VITA 67.1 RF receivers, one 3U VPX VITA 67.2 RF frequency reference module, one OpenVPX (VITA 65) SBC, one OpenVPX (VITA 65) PCIe/GbE centralized switch, and one 3U VPX Gigabit Ethernet switch. The system supports both 0.8 in. and 1.0 in. pitch conduction-cooled modules. The heat from the internal conduction-cooled modules is conducted to sidewall exchangers, where it is dissipated to the ambient environment by forced-air cooling.

The X-ES XPand1202 platform provides a feature-rich solution for RF and high-performance processing system development. RTMs provide maximum I/O flexibility and rapid system prototyping. Power and reset LEDs are provided for system status. A momentary push button is provided for reset, and a switch is provided for DC power enable. Custom configurations of modules, RTMs, and backplanes are also available utilizing X-ES and third-party components.

Form Factor

- 3U VPX (VITA 48.2) 0.8 in. or 1.0 in. pitch
- 3U VPX (VITA 67.1) 0.8 in. or 1.0 in. pitch
- 3U VPX (VITA 67.1) 0.8 in. or 1.0 in. pitch
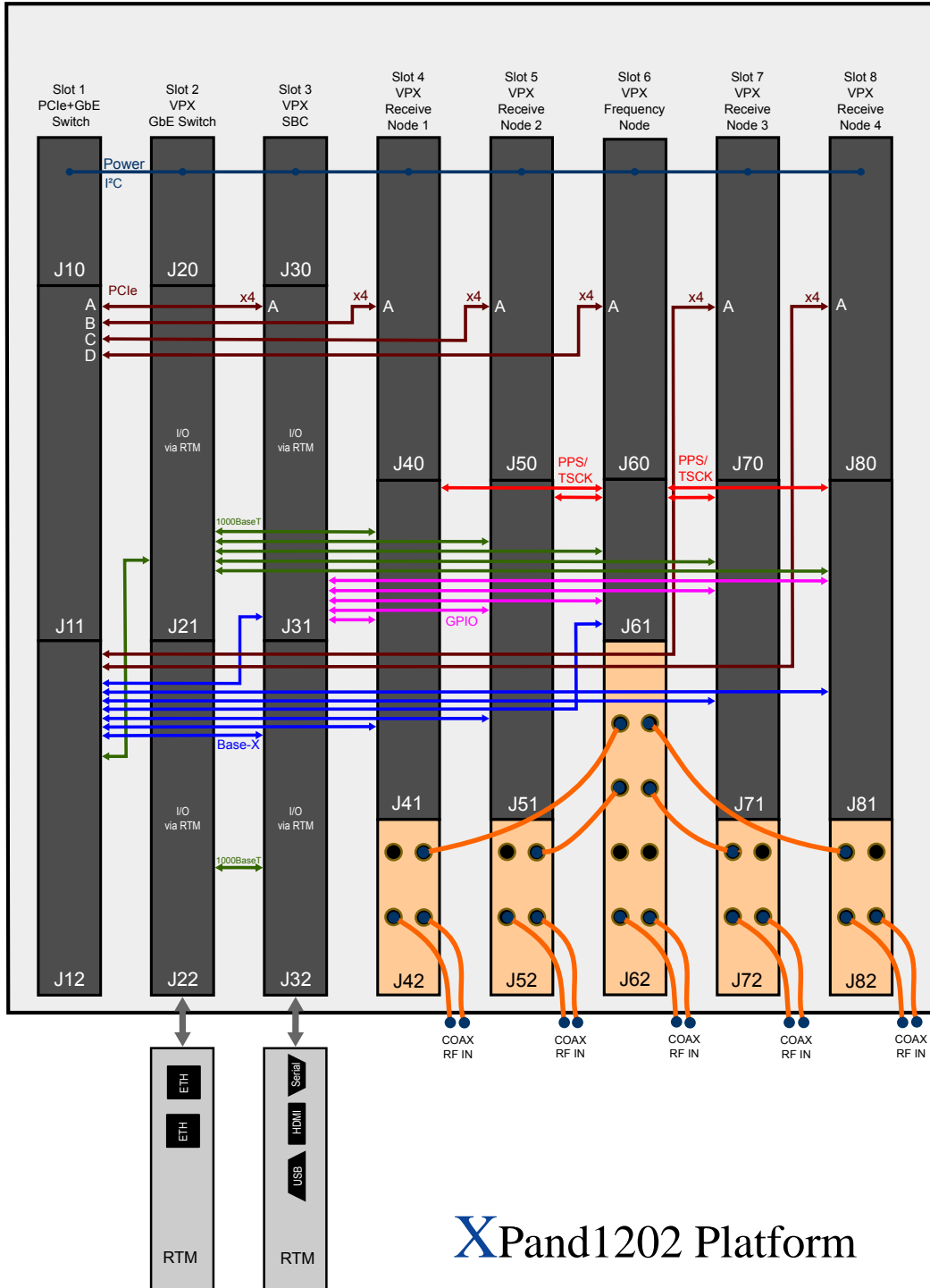- 3U VPX (VITA 67.2) 0.8 in. or 1.0 in. pitch

Slots

- Ten VITA 48.2 1.0 in. pitch slots
- Eight 1.0 in. pitch RTM slots
- One XPedite7470 3U OpenVPX (VITA 65) Intel® Core™ i7 SBC
- One XChange3012 3U OpenVPX (VITA 65) Centralized GbE/PCIe Switch
- One XChange3011 3U VPX Gigabit Ethernet switch slot
- Four DRS SI-9138 3U VPX (VITA 67.1) dual-channel RF receiver modules
- One DRS SI-7138 3U VPX (VITA 67.2) RF frequency reference modules

Power

- 110-240 VAC, 50/60 Hz power input

Physical Characteristics

- 16.5 in. (H), x 5.5 in. (W), x 11.5 in. (L)
- 20 lbs. with backplane and power supply

XPand1202 Platform