

# VSR347D

## Fully Rugged, 3U VPX Secure Router

The VSR347D is a fully rugged Secure Router featuring Juniper Networks® Junos® vSRX Virtual Firewall. The VSR347D offers two onboard 1000BASE-T and two 10GBASE-KR ports, plus the ability to expand this by connecting to external Network Interface Cards using the PCIe expansion plane switch.

Leveraging the high-performance capabilities of our Abaco Systems SBC347D with an optimized environment for Juniper Networks vSRX to run, the VSR347D provides a strong and performant layer of security for any 3U VPX based system.

Juniper Networks Junos vSRX provides a wealth of features including IPsec VPN, NAT, QoS, and full routing capabilities, to name just a few. The advanced security features offered by vSRX come from Juniper Networks experience as a company aimed at delivering automated, scalable and secure networks. vSRX has a proven pedigree in the cloud computing marketplace, which helps the VSR347D leverage the best commercial security technology into a form factor for rugged deployment.

The VSR347D can also be found inside our VSR8000 rugged secure router COTS system, proving the flexibility and capability of the VSR347D to fit into a SWaP optimized system.

Key security capabilities such as a Stateful Firewall, Brute force attack mitigation, and Malformed packet protect, all ensure that data is kept secure inside your network and threats are kept out.

Offering both 1000BASE-T and 10GBASE-KR ports makes the VSR347D ideally suited to acting as a secure gateway between multiple WANs (Wide Area Networks) and the LAN (Local Area Network) of any 3U VPX system.

Abaco's knowledge and experience of providing networking and switching solutions enables the VSR347D interoperate with products such as the SWE440A, to provide additional switching capability, or any number of SBC and FPGA products. Our wealth of expertise in the military, commercial and telecommunications markets uniquely positions us in the embedded computing industry – by us understanding application requirements.

We are fully compliant with AS9100 processes and bring years of experience designing rugged systems to your project. Our world-class program management competencies are tailored to help mitigate your risk.

### FEATURES:

- 3U VPX form factor
- Juniper Networks® Junos® vSRX Virtual Firewall
- 2x 1000BASE-T ports
- 2x 10GBASE-KR ports
- Onboard PCIe switch for port quantity expansion
- Advanced security features including:
  - Stateful Firewall
  - IPsec
  - Brute force attack mitigation
  - Malformed packet protection
  - DoS and DDoS protection
  - VPN
  - IPv4 and IPv6 Support
  - Network Address Translation (NAT)
  - Encapsulations
- Comprehensive range of Abaco ruggedisation levels offered (1-5)
- High performance Intel Xeon D processor
- 40-50W during operation

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Specifications

**Secure Router Software**

- Juniper Networks® Junos® vSRX v3

**Secure Router Bandwidth**

- 100Mb/s or 1Gb/s vSRX license options

**Abaco SBC**

- SBC347D
- OpenVPX MOD3-PAY-2F2T-16.2.7-3
- 32GB DDR4 SDRAM
- 32GB SSD (containing vSRX and OS)
- Build levels 1-5 available

**Router Performance**

- Routing+Firewall+NAT (64-byte packets) – 460Kpps
- AES256+SHA256 VPN – 300Mb/s
- Boot time – typically less than 240 seconds

**Rear VPX Ports**

- 2x 10/100/1000BASE-T ports
- 2x 10GBASE-KR ports
- 2x RS232 console ports

**Data Plane / Expansion Plane**

- Four lanes of Gen 3 capable PCI-Express to P1, PCIe REFCLK can be driven or received. Can be configured as 1 x4 or 2 x2 lanes (one port NT capable)

**Form Factor**

- 3U VPX

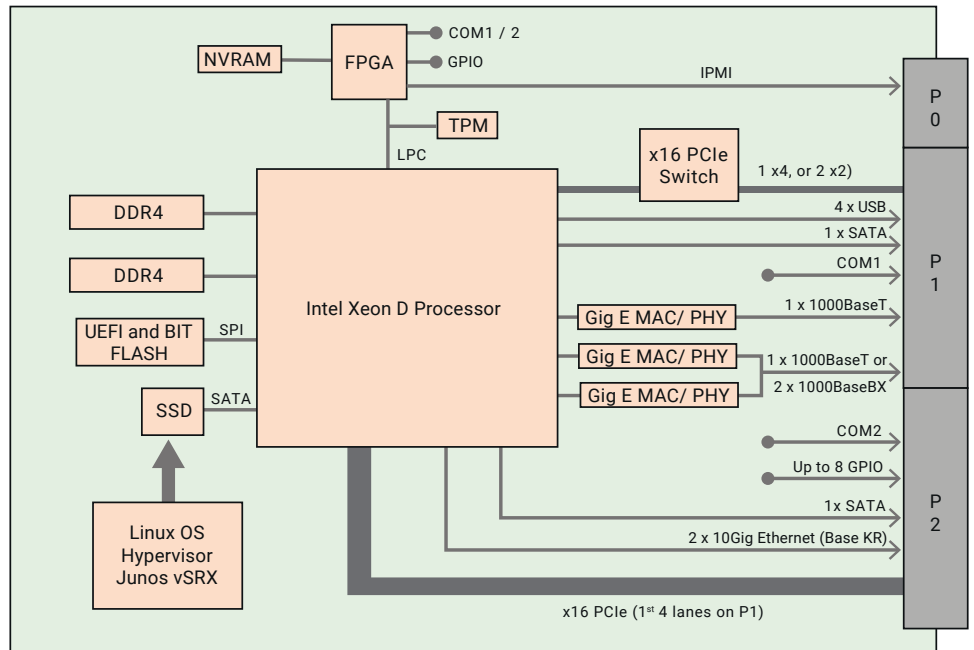
**Power**

- 40-50W, dependent on bandwidth and features enabled
- Lower power configurations modes may be available, please contact Abaco technical support

**Further Details & Qualification**

- Please see SBC347D Datasheet and Hardware Reference Manual

Block diagram



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