

## RELIABLE DATA STORAGE AND FORWARDING

- » Multi-mission
- » License-free
- » Reliable and secure



## DATA PROCESSOR OVERVIEW

From the world leader in earth observation ground systems and high-rate receivers, the Viasat Antenna Systems Data Processor (VDP) provides high-speed data processing, storage, and forwarding of X- and Ka-band transmissions. Connecting directly to a Viasat High-Rate Receiver, the processor captures valuable satellite data and quality metadata, performing user-configurable processing and storage to disk. The user can stream data in real-time or archive data for later retrieval.

The processor easily interfaces with image processors through TCP, FTP, NFS, or Samba connections and replaces legacy hardware-based connections, such as ECL or LVDS, eliminating costly data capture devices.

## ARCHITECTURAL SUPERIORITY

Having a separate receiver and processor creates unique advantages to the ground station design and operations. Based on an enterprise-class server, the processor provides an unparalleled level of processing power and reliability in a compact package. It can simultaneously store and forward at full data rates, eliminating the possibility of buffer overruns, ensuring no data is lost, and allowing near real-time forwarding of data. The high-speed and highly reliable RAID-5+1 disk configuration provides over 2 TB of data storage with high data throughput. Storage volumes can be increased with a simple hardware upgrade. When connected together, the Viasat processor auto-detects attached Viasat receiver for effortless setup.

## VIASAT DATA PROCESSOR AT-A-GLANCE

### Powerful Hardware

- » Connects to Viasat receiver
- » 8 channels of recording
- » 3.2 Gbps total throughput
- » 2.2 TB of data storage
- » 10 GbE data ports
- » Compact 1U design

### Feature-Rich

- » File playback
- » PRBS/BER test
- » CADU filtering/sorting
- » CCSDS CFDP/raw

### User-Friendly

- » Web GUI design
- » Intuitive JSON M&C

### Security

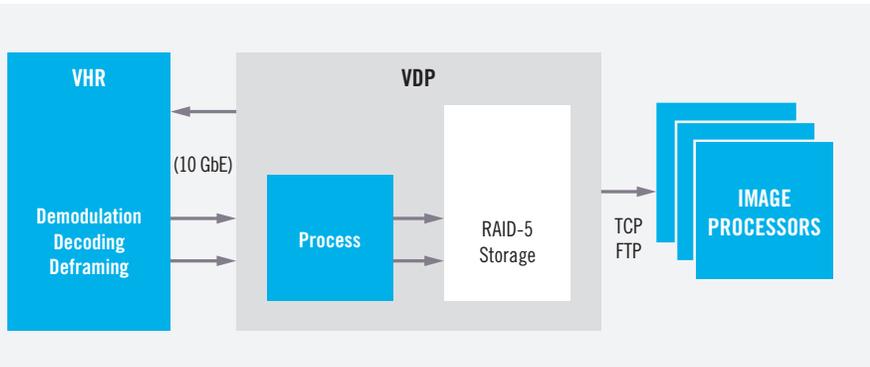
- » Linux-based
- » Secure data transfer

### Reliability

- » Enterprise-class system
- » RAID-5+1 storage
- » Redundant power supplies
- » MIL-STD-810 tested

### Options

- » Increased storage volume
- » Customized processing
- » Security-hardening



## CONTACT

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