

AVIONICS

REC
PLAY



SVD

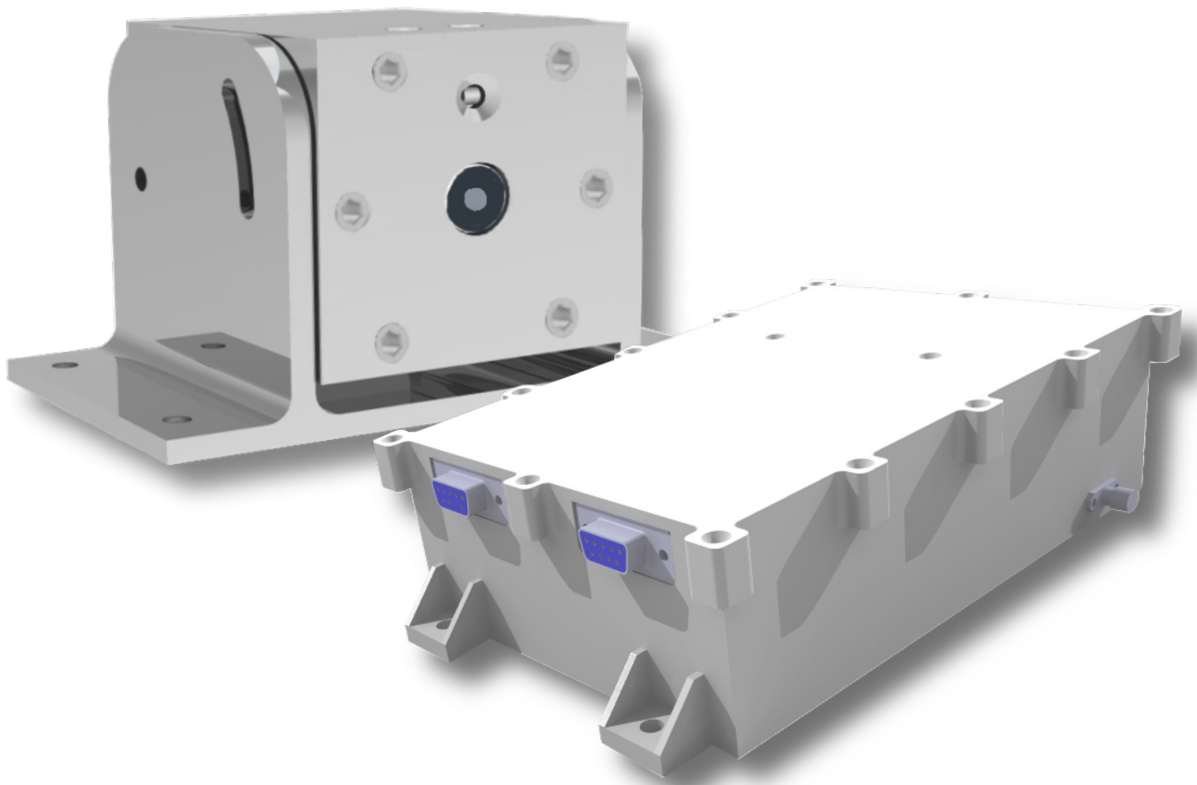
DIGITAL VIDEO SYSTEM

AM 08:00 PM

FEB. 15

190625

OVERVIEW



Digital video system Tx unit and Rx software designed for launch vehicles.

An onboard unit with four video cameras, each equipped with lighting, connected via a network cable to a main unit.

The unit powers the cameras, controls their lighting, receives the video streams, and sends it to a transmitting antenna.

Specially designed software to control the Cortex RTR telemetry receiver series, enabling the video reception, local recording, transmission to a viewer and more.



MAIN FEATURES

Designed for direct compatibility with Cortex RTR series

Entirely written in C++, which provides enhanced memory safety and performance optimization

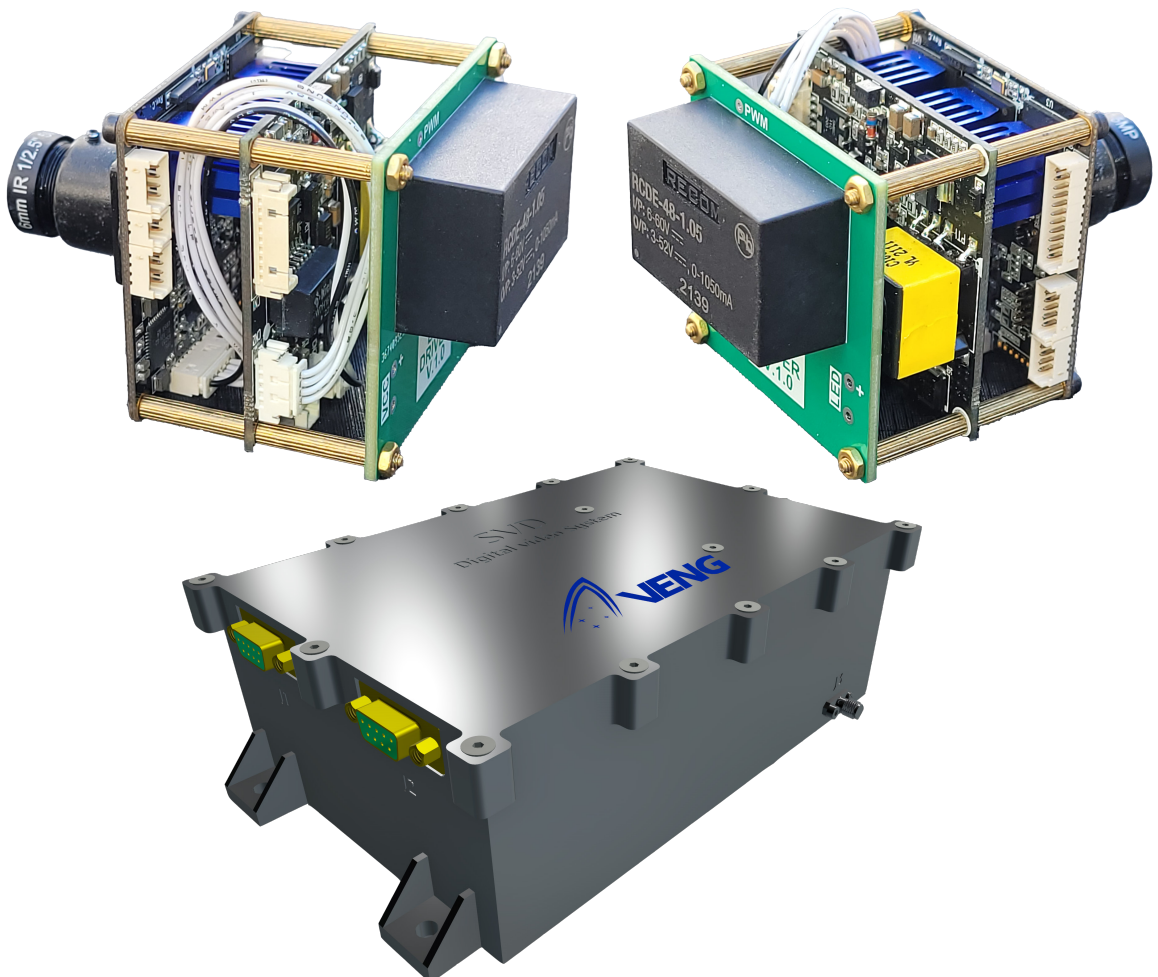
Linux OS compatible

Features a graphical user interface (GUI)

Live main parameters viewer, including cortex, video and host CPU relevant information

Supports local compressed video recording

Supports compressed video streaming to user defined address and ports for visualization



SPECIFICATIONS

Tx Frequency band

2200 to 2290 MHz (lower S band)

Tx Modulation

SOQPSK-TG (Tier 1)

Tx Bitrate

$\leq 5\text{Mbps}$

Tx Output power

10W

Total power consumption (4 cameras + main unit)

$< 40\text{W}$

Designed for H265 video codec

Up to 4 video cameras

@ 1920x1080, 25fps

@ 1080x720, 30fps

Camera lightning configurable

Up to 1400 lm

Camera Mass

0.3 kg (TBC)

Transmitter Mass

1.5 kg (TBC)

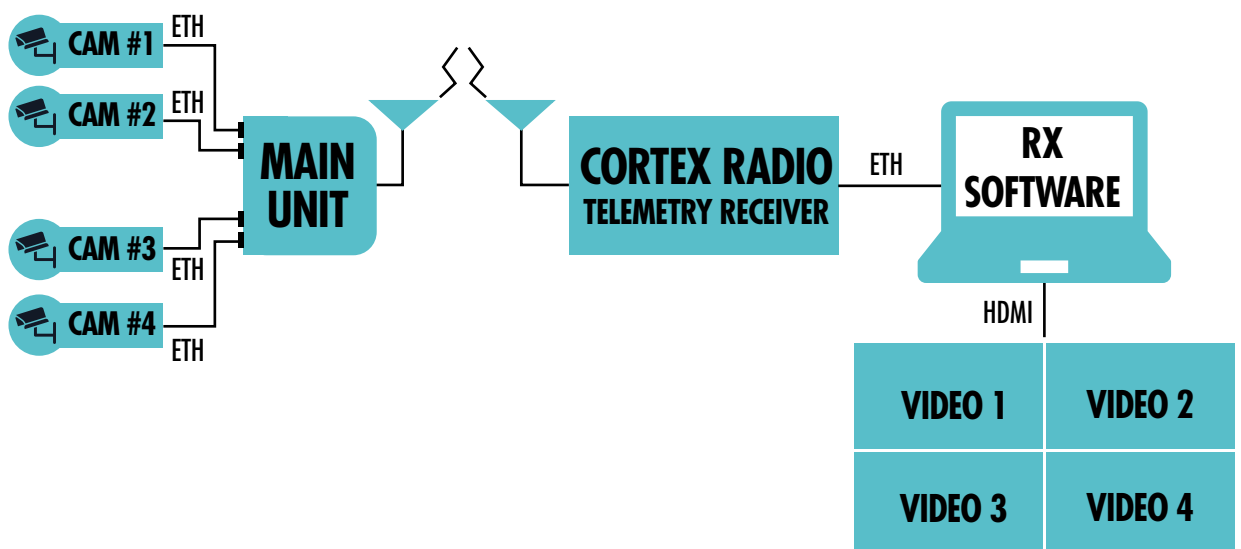
Camera Dimensions

80x80x80 mm (W x H x L)

Transmitter Dimensions

190.5x130x60 mm (W x H x L)

SYSTEM APPLICATION





Commercial Inquiries

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