

PG-V Series

Embedded Video Processing System

All-in-One Solution for
Real-Time Acquisition, Processing, Dissemination of
STANAG 4609 compliant motion imagery,
and Intelligent Video Analytics



PG-V100/200 with NVIDIA® Jetson™

- Raw camera capture via HDMI, HD-SDI, Analog, etc.
- MPEG-2 TS output with H.264/265 video and KLV metadata streams
- Accelerated object detection and target tracking
- Image enhancement, stabilization, EO-IR image fusion using XDL-E®

PG-V Series

Embedded Video Processing System

Pixoneer
GEOMATICS

SPECIFICATION

PG-V100



PG-V200



Mechanical

- 81 x 55 x 15 mm
- 57g (including carrier board and Xavier NX module without thermal solution)

- 95 x 65 x 28 mm
- 90g (including carrier board, capture board and Xavier NX module without thermal solution)

Module

- Jetson Xavier NX
- Jetson Nano

- Jetson Xavier NX

Camera Interface

- 4K HDMI x 1

- HD-SDI x 2, 2K HDMI x 2 or 4K HDMI x 1 (via M.2 capture board)
- Analog x 4
- CSI-2 x1(15-pin)

I/O Interface

- 1Gbps Ethernet x 1
- Micro HDMI output x 1
- USB 3.1 x 1
- UART x 1, RS-232 x 1, RS-422 x 1

- 1Gbps Ethernet x 1
- Micro HDMI output x 1
- USB 3.1 x 1, USB 2.0 x 1
- UART x 2, RS-232 x 1, RS-422 x 1

External Storage

- Micro SD x 1

- Micro SD x 1
- M.2 (M-Key, available when capture board is not installed)

Power

- DC Input 9-19V (5A max)
- Output x 1 (bypass)

- DC Input 9-19V (5A max)
- DC Output: 5V x 1, 3.3V x 1

Pixoneer Geomatics delivers software products and technologies for air, land and naval forces, as well as IT solutions for research Institute

Core Technologies : Satellites/Aerial Imagery Processing/Spatial Data Display/SAR Signal Processing/Video Processing/3D Model Generation for Digital Twin