

MPG V1

for
ADAS/AD Logging,
remote monitoring,
data center and others,
as edge computing



What is

- The ADAS logging platform, MPG V1 is especially designed for the data acquisition of High-bandwidth camera interfacing(MPI), ECUs etc.
- The platform with 6 Gbit/s acquisition rate combined with SSD add-on. It provides up to 4 TByte of logging storage.
And MPG V1 supports USB 3.1, 10 Gbit/s Ethernet and 2 of CAN-FD
Due to the compact rack-setup, which is optimized for small space in the vehicle, you can install it and back your data up conveniently.

Highlights

- Portable & Compact : Store huge amounts of data into the portable SSD card
- High-performance : Real time storage of the images from the 4-Channel camera
- Ultra-stable : Stable power supply without interruption in a moving, shaking vehicle
- Power-efficiency : Stable operation by ultra-low power (45W)
- Customizable : Various options based on add-on boards
Customized software development available



Applications

- Autonomous vehicles (Edge computing for logging system)
 - Pre-processing equipment on pictures-optimization for autonomous vehicles
 - Data acquisition to develop the AI algorithms for the autonomous vehicles
- Autonomous drones (logging system)
- Safety control systems of smart factory
- Security systems of smart city (via CCTV) and others



Technical Details

SOM	Nvidia Jetson™ Xavier	
GPU	512-Core GPU	
	Tensor Cores	
	Vulkan™ 1.0	
	CUDA® 10	
CPU	ARMv8.2 (64-Bit) heterogeneous multi-processing (HMP)	
	4x Dual-Core CPU clusters (8 NVIDIA Carmel processor cores)	
	L3 Cache: 4 MB (shared across all clusters)	
Memory	256-Bit DRAM interface	
	Secure External Memory Access Using Trust Zone Technology	
	Memory Type: LPDDR4x	
	Memory Size: 16GB	
Input Power	Maximum Memory Bus Frequency : 2133 MHz	
	19V	
Interface	SSD	6 Gbit/s SATA3 X 1EA * 4 TB SATA3 available (Add-on option / built-in SSD card slot)
	Ethernet	1 Gbit/s Ethernet X 1EA
		10 Gbit/s Ethernet X 1EA
	USB	USB 2.0 X 1EA
		USB 3.0 X 1EA
		USB 3.1 X 2EA (xHCI host controller with integrated PHY)
	CAN	CAN-FD X 2EA (up to 5Mbit/s)
	GPS	GPS UART communication / receiver X 1EA
	HDMI	Maximum Resolution 3840 X 2160 at 60Hz
Networking	Camera	MIPI Rx 4-Channel (Add-on option)
	10/100/1000 BASE-T Ethernet	
	Media Access Controller (MAC) / RGMII Interface	
	Standards-compliant 10G BASE-T Pcle 3.0 Ethernet	
Dimension	252 X 135 X 67 (mm)	
Variants (Options)	<ul style="list-style-type: none"> ▪ Add-on : MPI Board <ul style="list-style-type: none"> - Deserializer high-speed 2-Channel 2M 30FPS, high-resolution solutions - Up to 6 Gbps Serial-Bit Rate GMSL2 mode - Deserializer Low-speed 4-Channel 1M 30FPS, low-resolution solutions - Up to 1.74 Gbps Serial-Bit Rate GMSL1 mode - Support MIPI-CSI2 ▪ Add-on : SSD Storage Card <ul style="list-style-type: none"> - SATA interface SSD card slot - 4TByte SSD card(6 hours recording @1M Pixel Camera 4EA) ▪ Customization <ul style="list-style-type: none"> - It can be modified according to each customer's requirements 	

Cellplus Korea

Cellplus Korea is a rising corporate within the Edge Computing industry. Backed by cutting-edge engineers and professionals, we provide multifarious hardware, software, and engineering services in order to provide AI & Automotive businesses with high-end solutions to reach their highest potential.

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