



D315A0

An Engineering Kit built with NVIDIA® Jetson AGX Orin™

Suggested Vertical Markets

AMRs/ Smart Security/Smart Inspection

Enterprise-Leading Features

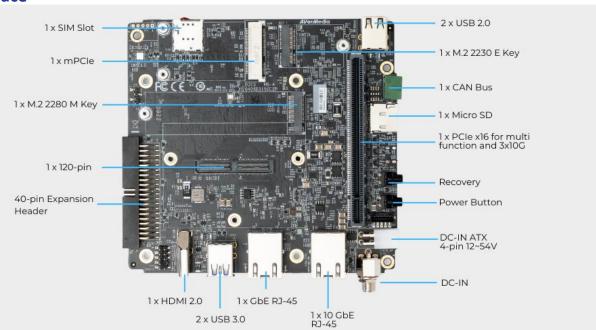
- 120-pin high speed connector for MIPI SerDes cameras, such as GMSL2/FPD-link III/V-by-One® HS, to deploy in AMRs application
- 1x GbE & 1x 10G RJ-45 ethernet for dozens of IP cameras streaming simultaneously in smart security application
- 10GigE Vision camera connector for smart inspection and 1x PCle slot for multi-function expansion.
- 1x M.2. E key for Wi-Fi 6E, 1x mPCle for 4G & 5G with adapter card, and 1x M.2. M key for SSD and capture
- Operating temperature: -25°C ~ 70°C
- Dimension: 141.5mm(W) x 133.5mm(L) x 63mm(H)

Expandability

In addition to the default selection of interfaces, frame grabbers can be added for expanded functionality.

Model	Host Interface	Video Interface	Max Input Resolution
CN312MW	M.2 M key 2280	1x SDI; 1x HDMI	2Kp60 in (SDI) 1920 x 1200p60 in (HDMI) 1080p out
CN312SW	M.2 M key 2280	2x SDI	2Kp60 in - 1080p out
CN311-H	M.2 M key 2280	1x HDMI	4096 x 2160p30

Interface









Specifications

NVIDIA Jetson SoM	NVIDIA® J	NVIDIA® Jetson AGX Orin [™] module (32GB or 64GB)		
Networking	· 1x 10G	 1x GbE RJ-45 1x 10G RJ-45 1x M.2 E Key (for Wi-Fi 6E) 		
Display Output	1x HDMI c	1x HDMI output		
Temperature	Storage te	Operating temperature -25°C~70°C Storage temperature -40°C ~ 85°C Relative humidity 40°C @ 95%, Non-Condensing		
MIPI & SerDes Camera (120-pin)	GMSL2/FP	GMSL2/FPD-link III/V-by-One® HS (STURDeCAM20 optional)		
USB	· 2x USB	 1x USB 2.0 Micro-B for recovery 2x USB 2.0 Type-A 2x USB 3.2 Type-A 		
Audio	Intel HD A	Intel HD Audio analog connector		
Storage	1x micro-S	1x micro-SD card slot		
Expansion Header	 1x M.2	 1x mPCle (for 4G LTE module or 5G module via adapter card) 1x PCle x16 (only support x8 PCle lanes) 		
	Voltage	DC 12~54V		
Power requirement	Current	DC IN Jack on board: 7A Max		
	Current	ATX 4pin: 10.8A Max		
Power Cord	US/JP/EU/	US/JP/EU/UK/TW/AU/CN		
Thermal Solution	Fan	Fan		
Buttons	Power and	Power and Recovery		
RTC Battery	Support R	Support RTC Battery and Battery Life Monitoring by MCU		
Dimensions		141.5mm(W) x 133.5mm(L) x 63mm(H) Weight: 720g		
Certifications	CE, FCC, K	c		