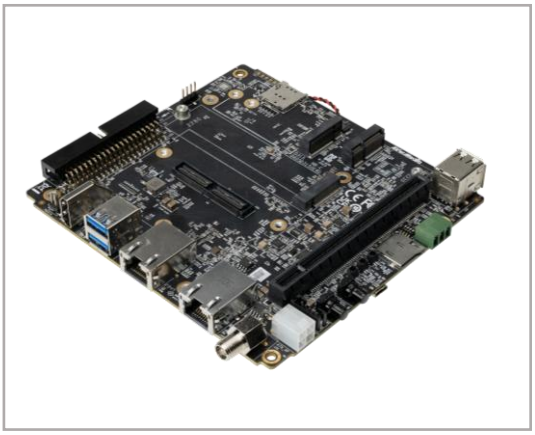
D315-1 Carrier board



Feature

- 1x M.2 B key for 4G & 5G, 1x M.2. E key for Wi-Fi 6E and 1x M.2. M key for SSD and capture
- 120-pin highspeed 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 PCIe slot for multi-function expansion
- Operating temperature: -40°C ~ 85°C
- Dimension: 141.5mm(W) x 133.5mm(L) x 29mm(H)

Specifications

Model	D315-1	
Type	Carrier board	
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson AGX Orin & AGX Orin Industrial module	
Networking	• 1x GbE RJ-45 • 1x 10G RJ-45	
Display Output	1x HDMI output	
Temperature	• Operating temperature -40°C~85°C • Storage temperature -40°C ~ 85°C • Relative humidity 40 °C @ 95%, Non-Condensing	
MIPI Camera Inputs (Internal)	GMSL2/FPD-link III/V-by-One® HS (STURDeCAM20 optional)	
USB	• 1x USB 2.0 Micro-B for recovery • 2x USB 2.0 Type-A • 2x USB 3.2 Type-A	
Storage	1x micro-SD card slot	
Expansion Header	• 40-pin (UART, SPI, CAN, I2C, I2S, GPIOs) • 1x M.2 B key 3042(4G) LTE module or 3052(5G) module 1x M.2 E key (for Wi-Fi 6E) • 1x M.2 M key (for SSD or AVerMedia capture card: CN311-H, CN312SW, CN312MW) • 1x Micro SIM socket • 1x PCIe x16 (only support x8 PCIe lanes) • 1x CAN bus with transceiver • 120-pin (for MIPI SerDes) • OOB support (optional)	
Power requirement	Voltage	DC 12V~54V
	Current	DC in JACK on board: 7A Max
Power Cord	US/JP/EU/UK/TW/AU/CN	
Fan Module	Heat sink with fan (optional)	
Buttons	Power and Recovery	
Power Cord	US/JP/EU/UK/TW/AU/CN	

All specifications are subject to change without prior notice.

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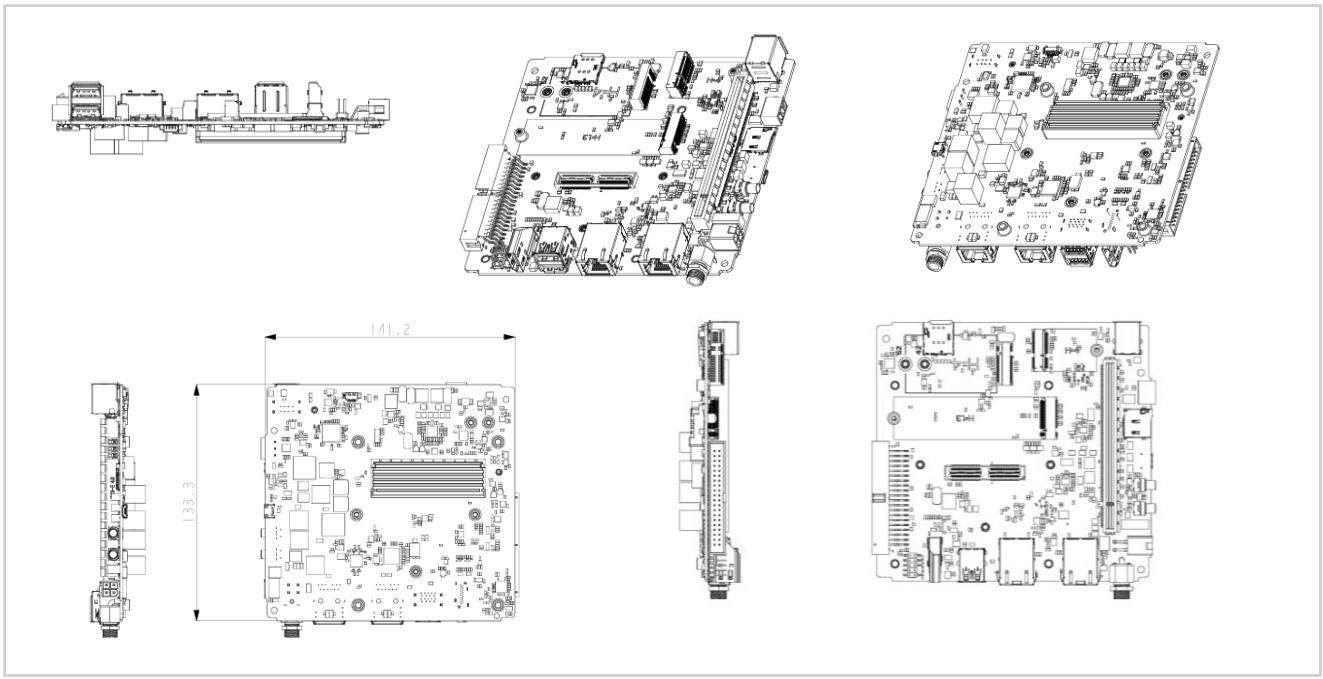
Specifications

Fan Module	Heat sink with fan (optional)
Buttons	Power and Recovery
RTC Battery	Support RTC battery and Battery Life Monitoring by MCU
PCB/Electronics Mechanical Info	141.5mm (W) x 133.5mm (L) x 29mm (H) Weight: 189g
Certifications	CE, FCC, KC

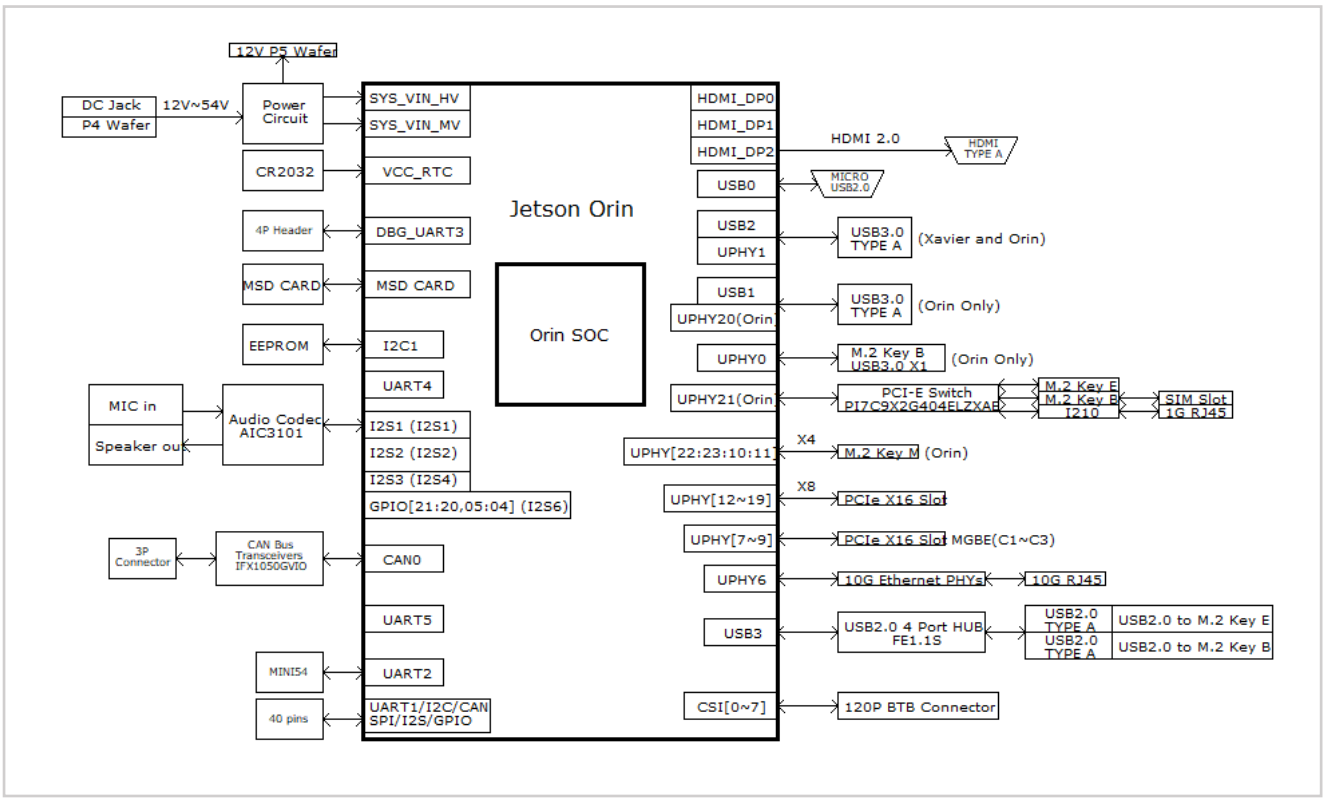
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Dimensions (90 x 56 x 30.7 mm)



Block Diagram



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Ordering information

Model Name	Part Number	Country	Description
D315	61D3150001AS	TW/AU	Carrier Board only, with Adapter and Power Cord. Also can support 4G/5G & AGX Orin Industrial
D315	61D3150001AR	US/UK/EU	Carrier Board only, with Adapter and Power Cord. Also can support 4G/5G & AGX Orin Industrial
D315	61D3150001CR	JP	Carrier Board only, with Adapter and Power Cord. Also can support 4G/5G & AGX Orin Industrial

Optional Accessory

Item	Part Number	Product Name	Type	Description	
1	0700WLAN0AWX	Wi-Fi Module	M.2 E key 2230	Intel® Wireless-AC 9260、Intel® Wi-Fi 6E AX210	
2	0700SSD00AXS	SSD	M.2 M key 2280	256GB	
3	61CN312M00AW	Capture Card	CN312M	1x SDI; 1x HDMI	2Kp60 in (SDI), 1920 x 1200p60 in (HDMI), 1080p out
	61CN312SW1AD		CN312SW	2x SDI	
	61CN311H00AR		CN311-H	1x HDMI	2Kp60 in - 1080p out 4096 x 2160p30 in and out
4	60D3150000AE	4G LTE Cat4	M.2 B key 3042	Quectel EM05-G	
5	60D3150001AD	5G	M.2 B key 3052	Quectel RM520N-GL	

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