

AMR-S100 CB

Carrier Board for NVIDIA® Jetson AGX Orin 32 & 64GB Module



Features

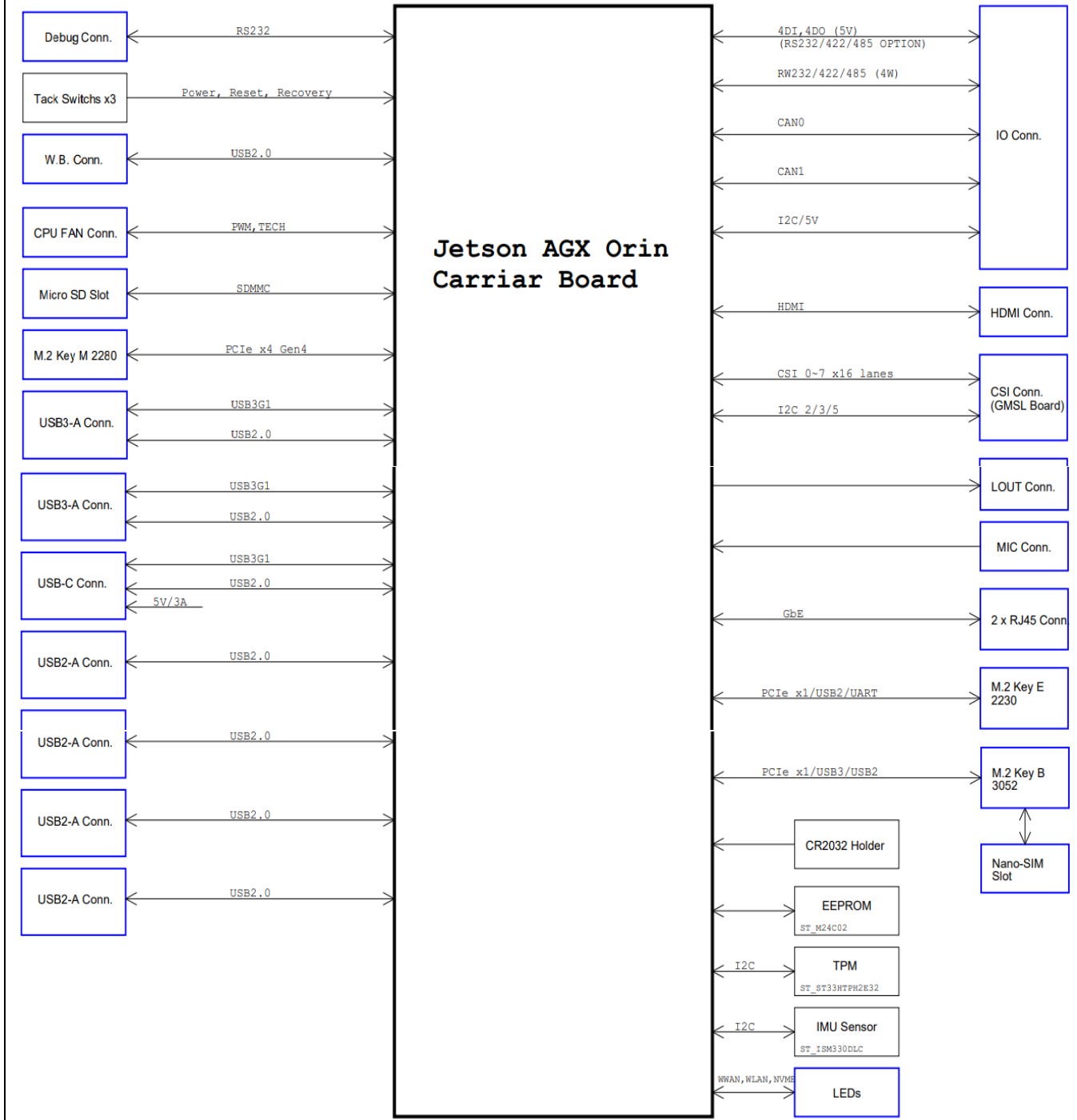
- Support NVIDIA® Jetson AGX Orin 32G & 64G
- DC 9V to 36V wide range power input
- Support various expansions 1 x M.2 2280(NVME), 1 x M.2 2230, 1x M.2 3052
- Pre-load Ubuntu 20.04 image, JetPack 6.0 SDK
- Capable to support 8 GMSL cameras with mini Fakra-Z connectors(option)

Specifications

Model		DMS-SR24-B0A1	
Compatible Modules		NVIDIA® Jetson AGX Orin 32 & 64GB	
BSP	OS	JetPack 6.0	
I/O	USB	2 x USB 3.2 Type A + 1 x USB 3.2 Type C, 4 x USB 2.0	
	OTG USB (Internal)	1 x Micro USB	
	Serial	RS-232/485(4 Wire)	Option: 2 x RS-232/485(4 Wire)
	GPIO	5V TTL level 4 x DI, 4 x DO(Default)	
	CAN Bus	2 x CAN	
	I2C	1 x I2C	
	Display	1 x HDMI	
	Audio	line out; MIC in	
	Ethernet	2 x Gigabit Ethernet (10/100/1000 Mbps), one port support PTP	
Expansion	LTE	1 x M.2 3052 B key with SIM slot	
	WLAN	1 x M.2 2230 E key	
	Storage	1 x MicroSD slot 1 x M.2 2280 M Key (NVMe, PCIe4 GEN 4)	
	GMSL board	Support up to 8 GMSL cameras	
Power	Power Input	Support DC in 9~36V	
LED	LED Indicator	1 x Power, 1 x Storage, 1 x WiFi, 1 x WWAN	
Environment	Component temperature range	-25~80°C	
	Storage Temperature	-40~85°C	
	Humidity	95% @ 40 °C (non-condensing)	
Mechanical	Dimensions (W x L)	185x152 mm	
Weight		0.3 Kg	

Block diagram

Carrier Board



Ordering Information

Carrier Board		Power Adaptor & Power Cord	
Part Number	Description	Part Number	Description
DMS-SR24-B0A1	Nvidia Jetson AGX Orin Carrier Board	96PSA-A230W24P4-3	AC/DC adapter, DC 24 V 230 W, -20 ~ 60°C
		1702002600	Power cable 3-pin 183 cm, (USA)
		1702002605	Power cable 3-pin 183 cm, (EU)
		1702031801	Power cable 3-pin 183 cm, (UK)
		1700029019-01	Power cable 3-pin 180 cm, PSE / BSMI

M.2 2230 E key WiFi module & Antenna & Cables		M.2 3052 B key LTE module & Antenna & Cables	
Part Number	Description	Part Number	Description
968DD00377	WiFi 6 + BT (RTL8852BE) -30~75°C	AIW-356DQ-N01	5G Sub6+GNSS M.2 3052 Key B, USB only (USA) normal -30~75°C extend -40 ~ 85°C
1751000342-01	Antenna for WiFi, 2pcs per unit	AIW-356DQ-E01	5G Sub6+GNSS M.2 3052 Key B, USB only (EU) normal -30~75°C extend -40 ~ 85°C
AIW-170BQ	Wi-Fi 6E+BT 5.3 (WCN6856) -40 ~ 85°C	AIW-356DQ-JK1	5G Sub6+GNSS M.2 3052 Key B, USB only (JP) normal -30~75°C extend -40 ~ 85°C
1990041514S000	WiFi module 1.37mm clip M.2 Clip N66 23.7x6x7.6	AIW-356DQ-C01	5G Sub6+GNSS M.2 3052 Key B, USB only (China) normal -30~75°C extend -40 ~ 85°C
1751000670-01	Antenna Cable RP-SMA (F) to MHF4, 220mm	AIW-357DK-G2U	5G Sub6+GNSS M.2 3052 Key B, USB only (Global) normal -30~75°C extend -40 ~ 85°C
1751000669-01	Antenna Cable RP-SMA (F) to MHF4, 420mm	1750009372-01	Antenna for 5G, 4pcs per unit
		1990041513S000	5G module M.2 Clip for DMS-SR24 PA66 32.9x7.55
		1751000673-01	Antenna Cable SMA (F) to MHF4L, 90mm
		1751000674-01	Antenna Cable SMA (F) to MHF4L, 210mm
		1751000675-01	Antenna Cable SMA (F) to MHF4L, 530mm
		1751000676-01	Antenna Cable SMA (F) to MHF4L, 380mm

M.2 2280 NVME SSD		GMSL Board	
Part Number	Description	Part Number	Description
SQF-C8MV4-480GDEEE	SQF 930-D NVMe M.2 2280 SSD (OPAL) 480G 3D TLC (BiCS5) (-40~85°C)	DMS-SR24-G0A1	Nvidia Jetson AGX Orin GMSL Board supports up to 8 GMSL cameras with mini Fakra-Z connectors
96FD80-P512-TS	KIOXIA 512GB PCI-E SSD TLC 0~70°C		
SQF-C8MV2-512GDEFE	SQF 730-D 512G 3D TLC BiCS5 (-40~85°C)		
SQF-C8MV4-2TDEDM	SQF 720-D PCIe/NVMe Gen.3 M.2 2280 OPAL 2T 3D TLC BiCS5 (-20~85°C)		
SQF-C8MV4-2TDEDE	SQF 720-D PCIe/NVMe Gen.3 M.2 2280 OPAL 2T 3D TLC BiCS5 (-40~85°C)		
SQF-C8MV4-2TDEFM	SQF 730-D PCIe/NVMe Gen.4 M.2 2280 OPAL 2T 3D TLC BiCS5 (-20~85°C)		

SOC			Cables for technical supporting	
Part Number	MPN	Description	Part Number	Description
968DD00255	900-13701-0040-000	NVIDIA Jetson AGX ORIN 32GB	By Request	Debug Console cable (DB9) by request
968DD00269	900-13701-0050-000	NVIDIA Jetson AGX Orin-64GB	By Request	OTG cable (USB) by request