

DS-015

Compact AI Player Powered by Jetson Orin Nano / Orin NX

Preliminary



Features

- Power by Nvidia 6-core Arm® Cortex-A78AE v8.2 64-bit
- Multiple AI up to 100 TOPS (INT8)
- Ultra slim with smart fan design
- 3 x USB 3.2 Gen1, 1 x USB-C 2.0 for download mode only
- HDMI 4Kp60 display support

WISE-DeviceOn

Introduction

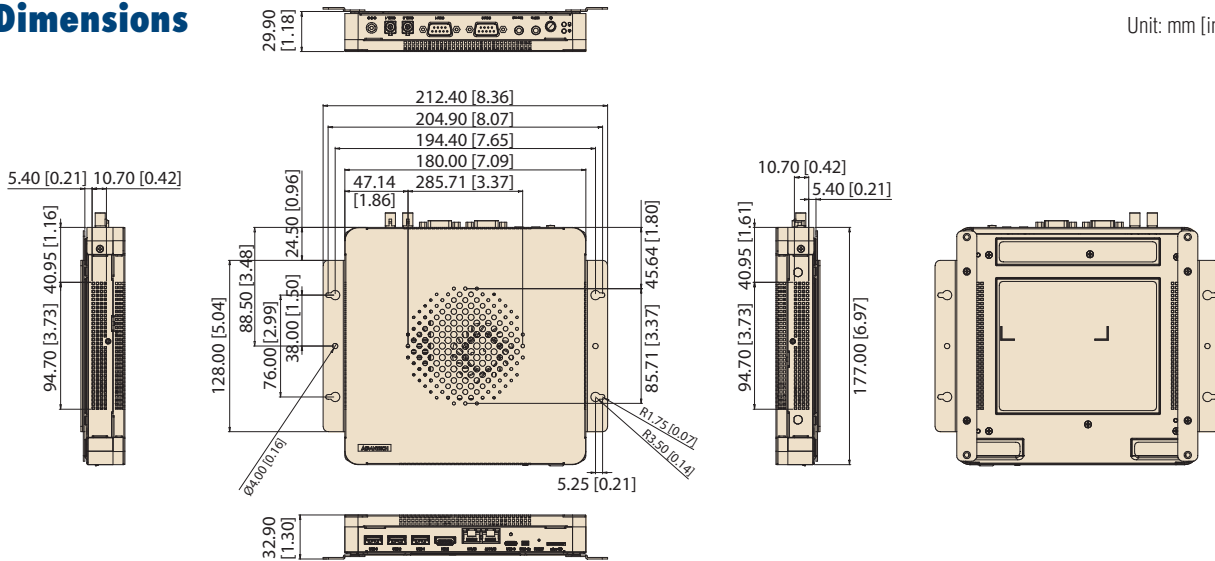
DS-011 is a slim Edge AI Box powered by NVIDIA Jetson Orin Nano, featuring 4K HDMI display output and dual GMSL camera inputs. Designed for smart city and retail applications, it is an ideal solution for interactive AI systems and digital signage. With the NVIDIA Ampere architecture (512-core GPU with Tensor Cores), it delivers powerful performance for real-time AI inference at the edge.

Specifications

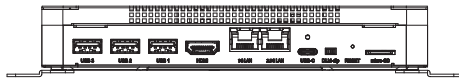
		9795S015000U	9795S015001U	9795S015002U	9795S015003U
Processor	Chipset	NVIDIA Jetson Orin Nano-4G	Nano-8G	NX-8G	NX-16G
	Clock Speed	Arm Cortex-A78AE, up to 2.0 GHz	Arm Cortex-A78AE (6 cores)	Arm Cortex-A78AE (6 cores)	Arm Cortex-A78AE (8 cores)
Memory	Technology	Jetson Orin Nano 4GB / 8GB LPDDR5 4267 MT/s 3200 MHz on board Jetson Orin NX 8GB / 16GB LPDDR5 8533 MT/s			
GPU		1024-core NVIDIA Ampere GPU with 32 Tensor Cores Maximum Operating Frequency: 625/918MHz	Ampere 512 cores 625 MHz	Ampere 1024 cores 625 MHz	Ampere 1024 cores 918 MHz
AI Performance Reference		Up to 20/100 Sparse TOPs (INT8)	super mode: 34 TOPS Sparse	super mode: 67 TOPS Sparse	super mode: 117 TOPS Sparse
Thermal Solution		Fan			
Display	Output	1 x HDMI 1.4			
	HDMI Resolution	Nano: 4K UHD (3840×2160) @ 30Hz NX: 4K UHD (3840×2160) @ 60Hz			
Ethernet	Controller	1G NVIDIA			
	Interface	2.5G Intel I226V			
	Connector	1G/2.5G LAN Controller			
I/O Interfaces	Audio	2 x RJ45			
	USB	1 x Line-out ; 1 Mic-in			
	Serial Port	3 x USB 3.2 x Gen1 ; 1 USB-C for Software Download			
	LED Indicators	1 x RS232 (2 wires), 1 x RS-232/422/485.			
	GMSL	1 x Power, 1 x SSD Access			
Storage	M.2	2 x GMSL			
Power Requirement	Input Voltage	1 x M.2 2280 128G			
Physical Characteristics	Mounting	12-24V			
	Dimension	Wall Mount			
	Weight	180 x 177 x 23mm			
Environment	Operating Temperature	0.9 kg			
	Relative Humidity	0~40°C (with 0.7 m/s airflow)			
Operating System	Operating System	95% @ 40 °C (non-condensing), operating			
Certification	EMC	Linux Ubuntu 22.04			
	Safety	CE/FCC Class B, BSMI, UKCA			

Dimensions

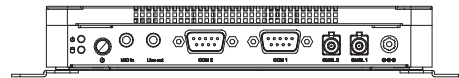
Unit: mm [inch]



Front View



Rear View



Ordering information

Part No.	CPU	Memory	Storage	HDMI	USB 3.2 Gen1	OS	Power Input	Origin
DS-015VB-U0A1E	Jetson Orin Nano	4G LPDDR5 on board	M.2 2280 128G	1	3	Linux Ubuntu 22.04	12-24V	China
DS-015VB-U1A1E	Jetson Orin Nano	8G LPDDR5 on board	M.2 2280 128G	1	3	Linux Ubuntu 22.04	12-24V	China
DS-015VB-U2A1E	Jetson Orin NX (super mode)	8G LPDDR5 on board	M.2 2280 128G	1	3	Linux Ubuntu 22.04	12-24V	China
DS-015VB-U3A1E	Jetson Orin NX(super mode)	16G LPDDR5 on board	M.2 2280 128G	1	3	Linux Ubuntu 22.04	12-24V	China
DS-015VB-U0A1U	Jetson Orin Nano	4G LPDDR5 on board	M.2 2280 128G	1	3	Linux Ubuntu 22.04	12-24V	Taiwan
DS-015VB-U1A1U	Jetson Orin Nano	8G LPDDR5 on board	M.2 2280 128G	1	3	Linux Ubuntu 22.04	12-24V	Taiwan
DS-015VB-U2A1U	Jetson Orin NX(super mode)	8G LPDDR5 on board	M.2 2280 128G	1	3	Linux Ubuntu 22.04	12-24V	Taiwan
DS-015VB-U3A1U	Jetson Orin NX(super mode)	16G LPDDR5 on board	M.2 2280 128G	1	3	Linux Ubuntu 22.04	12-24V	Taiwan

Packing List

Part Number	Description
96PSA-A65W19V1-3	ADP A/D 100-240V 65W 19V C6 DC PLUG 180° 62368
-	1 x DS-015
1960057740T002	2 x Wall Mount brackets and screws

Storage and DRAM

Part Number	Description
SQF-C8MV2-128GDEDM	SQF M.2 2280 720-D 128G 3D TLC BiCS5 (-20~85°C)

Power Cord

Part Number	Description
1700001524	3-pin power cord (US)
170203183C	3-pin power cord (EU)
170203180A-01	3-pin power cord (UK)
1700008921	3-pin power cord with PSE (Japan)
1700019146	3-pin power cord (CCC)
1700018553	3-pin power cord (AU)
1700024849-01	3-pin power cord (TW)

Optional Items

P/N	Remark
1960056999T301	DS-015 VESA Mount
EWM-W179M201E	802.11ax/ac/b/g/n M.2 2230 Key A/E solution based on RTL8852CE chipset (2T2R)
1751000648-01	RF Cable/ 1.13/ 10mm/ Black/ RP-SMA femal
1751000635-01	RF Cable/ 1.13/ 20mm/ Black/ RP-SMA femal
1751000460-01	WiFi 6E Dipole ANTENNA 2400~2500 / 5150~5850 / 5925~7125 MHz