

MIL6N0 IGX 700

Power by NVIDIA IGX Orin™ & RTX 6000 Ada
Provide 1705 TOPS of AI Computing

YUAN
Visualize Intelligent Planet

Features

- Powered by NVIDIA IGX Orin™ and NVIDIA® RTX 6000 Ada
- NVIDIA IGX Orin™ Motherboard
- Up to 1705 TOPS AI Performance
- Multi-view Support
- 2×100Gb QSFP28 Port, 2×1Gb RJ45 Port
- 4×USB3.2 Gen2



Specifications

System	
CPU	NVIDIA IGX Orin™ 12-core Arm® Cortex®-A78AE v8.2 64-Bit CPU 3MB L2 + 6MB L3
GPU	NVIDIA IGX Orin™ 2048-Core NVIDIA Ampere Architecture GPU with 64 Tensor Cores
	NVIDIA RTX 6000 Ada 48 GB GDDR6 Memory, 960 GB/s MemoryBandwidth 18176-Core NVIDIA Ampere Architecture GPU with 568 Tensor Cores
AI Performance	1705 TOPS
System Memory	Memory: 64GB LPDDR6
Interface	
Storage	64GB eMMC 5.1 (On NVIDIA IGX Orin™ Module)
Display Interface	1×DP1.4a 3×HDMI2.0
Ethernet	2×100Gb QSFP28 Port 2×RJ45 for 10/100/1000Mbps Ethernet DHCP Client
Expansion Slot	M.2 1×M.2 2230 E Key USB2.0/PCIe Gen2×1 Slot 1×M.2 2280 M Key PCIe Gen4×4 Slot
USB	4×USB3.2 Gen2 (Type-A) 1×USB3.2 Gen2 (Type-C)
Audio	1×3.5mm Line Out 1×3.5mm MIC in
Misc. Features	Firmware Upgradable

Key Points

GPU Support	
NVIDIA RTX 6000 Ada	V

Add-On Cards / SDK / Software

Video Feature				
	PCIe Model	Interface	Max. Resolution	Capture / Preview
Capture Card (Optional)	SC750N1-L HDMI2.1	1×HDMI2.1	7680×4320p@60/50fps	4:2:2 10Bit P210
	SC720N1-L DP1.4	1×DP1.4	7680×4320p@30/25fps	4:2:0 10Bit P010
	SC720N4 HDMI2.0	4×HDMI2.0	4096×2160p@60/50fps	4:4:4 8Bit YV24
	SC720N4 12G-SDI	4×12G-SDI	4096×2160p@60/50fps	4:4:4 8Bit RGB32 / 24
	SC710N2-L HDMI2.0	2×HDMI2.0	4096×2160p@60/50fps	4:2:2 8Bit YUY2
	SC710N2 12G-SDI	2×12G-SDI, 8×3G-SDI	4096×2160p@60/50fps	4:2:0 8Bit YV12, NV12
Video Encode	H.265 (HEVC) 1×8K30 3×4K60 7×4K30 14×1080p60 29×1080p30			
	H.264 3×4K60 7×4K30 14×1080p60 29×1080p30			
Video Decode	H.265 (HEVC) 2×8K60 5×8K30 11×4K60 23×4K30 47×1080p60 94×1080p30			
	H.264 6×4K60 12×4K30 24×1080p60 49×1080p30			
SDK				
QCAP	Capture High Performance Renderer Image Snapshot Deinterlace, Alpha Blending Engine Auto Signal Detection 2D/3D Video, Audio and VANC Streams Capture			
	Record Encrypt / Sync / Clone / Recording Time-Shifting / Rewind / Pre-Event / Recording Multi-Streams (3D) Recording Animation Transition Effect Video Cropping, Scaling and Alpha Blending Engine			
	Stream 2D/3D Universal Stream Client 2D/3D Multi-Streams Stream Server RTSP, RTMP, HLS, SRT, TS, WebRTC., Full NDI (*), NDI-HX (*), Dante AV-H (*) Animation Transition Effect Video Cropping, Scaling and Alpha Blending Engine *Separate License Required			
QDEEP	AI SDK Integrated Multiple Algorithms and Deep-Learning Models in Various Fields of Applications Access Control Objects Detection Objects Segment Optical Character Recognition License Plate Recognition Customizable Video AI Functions Upon Request			



SC750N1-L HDMI2.1



SC720N1-L DP1.4a



SC720N4 HDMI2.0



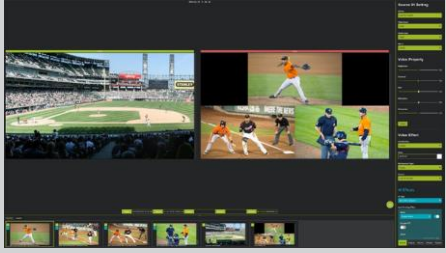
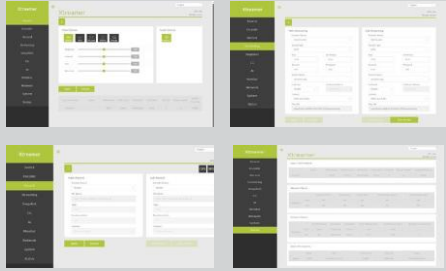
SC720N4 12G-SDI



SC710N2-L HDMI2.0



SC710N2 12G-SDI

Software (Optional)		
Stream Catcher Pro	Capture Auto Signal Detection Deinterlace, OSD, Color Adjustment Image Snapshot Animation Transform Effect for PGM	
	Record AV1, H.26X MP4, TS Multi-Stream Recording Schedule Recording	
	Stream Multi-Streams Stream Server RTSP, RTMP, HLS, SRT, TS, WebRTC., Full NDI (*), NDI-HX (*), Dante AV-H (*) *Separate License Required	
Xtreamer	Web Based User Interface	
	Encode / Decode AV1, H.26X	
	Color Format Adjust 444 / 422 / 420, 10Bit / 8Bit Select	
	Record MP4, TS	
	Stream / Network RTSP, RTMP, HLS, SRT, TS, WebRTC., Full NDI (*), NDI-HX (*), Dante AV-H (*) *Separate License Required	

Environment

Development Environment	
IGX-SW	1.0 or Higher
Environment	
Power Supply	100-240V
Power Consumption	TBA
Operating Temperature	Standard Version: 5~45 °C with Airflow
Storage Temperature	-20~85 °C

Mechanical

- Dimension of main Board: 238.84mm×198.98mm

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