

VPP6T0-S i7E

Quad 4K60 Decode & Display

YUAN
Visualize Intelligent Planet

Features

- Up to 4 HDMI2.0 Display
- Up to 32 TOPS AI Performance
- 2×M2 M Key / 1×M2 E Key / 1×M2 B Key
- 2×USB3.0 / 2×USB2.0
- 6×COM Port / 2×I2C



Specifications

System	
CPU	Intel® Core™ i7 1165G7
GPU	Intel® Iris® Xe Graphics
AI Performance	32 TOPS
System Memory	2×16GB DDR4 3200MHz Dual Channel
Interface	
Storage	128GB M2 2280 SATA SSD 1×SATA
Display Interface	Rear Display 2×HDMI2.0 2×HDMI2.0 (Optional, Convert from Internal Display) Internal Display 1×HDMI2.0 (Onboard Connector) 1×eDP (Onboard Connector)
Ethernet	2×RJ45 for 10/100/1000Mbps Ethernet DHCP Client
Expansion Slot	M2 1×M2 2280 M Key PCIe Gen3×4 Slot 1×M2 3042 B Key USB3.0 Slot with SIM Card Slot 1×M2 2230 E Key PCIe Gen3×1/USB2.0 Slot
USB	Front USB 1×USB3.0 (Type-A) Rear USB 1×USB3.0 (Type-A) 2×USB2.0 (Type-A) Internal USB 4×USB2.0 (Pin Header)
Audio	1×3.5mm Line/MIC In 1×3.5mm Line Out
Perherial Communication	6×COM Port (Pin Header) 2×I2C (Pin Header) GPIO Pin Header 1×SPI 1×I2C 3×GPIO

Add-On Cards / SDK / Software

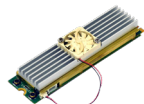
Video Feature				
Capture Card (Optional)	M2 Model	Interface	Max. Resolution	
	SC750N1 M2 HDMI2.1	1×HDMI2.1	7680×4320p@60/50fps	4:2:2 10Bit P210
	SC710N1 M2 HDMI2.0	1×HDMI2.0	4096×2160p@60/50fps	4:2:0 10Bit P010
	SC710N1 M2 12G-SDI	1×12G-SDI	4096×2160p@60/50fps	4:4:4 8Bit YV24
	SC400N2 M2 HDMI	2×HDMI	1920×1080p@60/50fps	4:4:4 8Bit RGB32 / 24
	SC400N2 M2 SDI	2×SDI	1920×1080p@60/50fps	4:2:2 8Bit YUY2
	SC400N1 M2 HDV	1×DVI-I, 1×YPbPr, 1×VGA	1920×1080p@60/50fps	4:2:0 8Bit YV12, NV12
Video Encode	H.265 (HEVC) 1×8K60 4×4K60 8×4K30 16×1080p60 32×1080p30			
	H.264 3×4K60 6×4K30 12×1080p60 24×1080p30			
Video Decode	H.265 (HEVC) 1×8K60 4×4K60 8×4K30 16×1080p60 32×1080p30			
	H.264 3×4K60 6×4K30 12×1080p60 24×1080p30			
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. 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 Face Recognition Objects Detection Objects Segment Optical Character Recognition License Plate Recognition Customizable Video AI Functions Upon Request			



SC750N1 M2 HDMI2.1



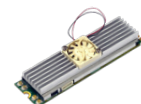
SC710N1 M2 HDMI2.0



SC710N1 M2 12G-SDI



SC400N2 M2 HDMI

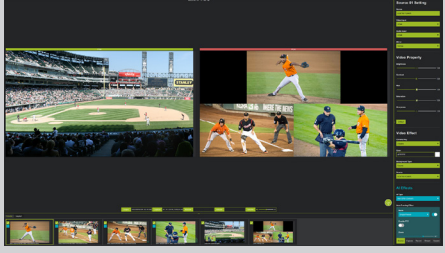
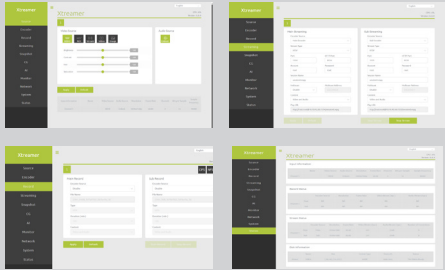


SC400N2 M2 SDI



SC400N1 M2 HDV

Software (Optional)

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

Environment

Development Environment

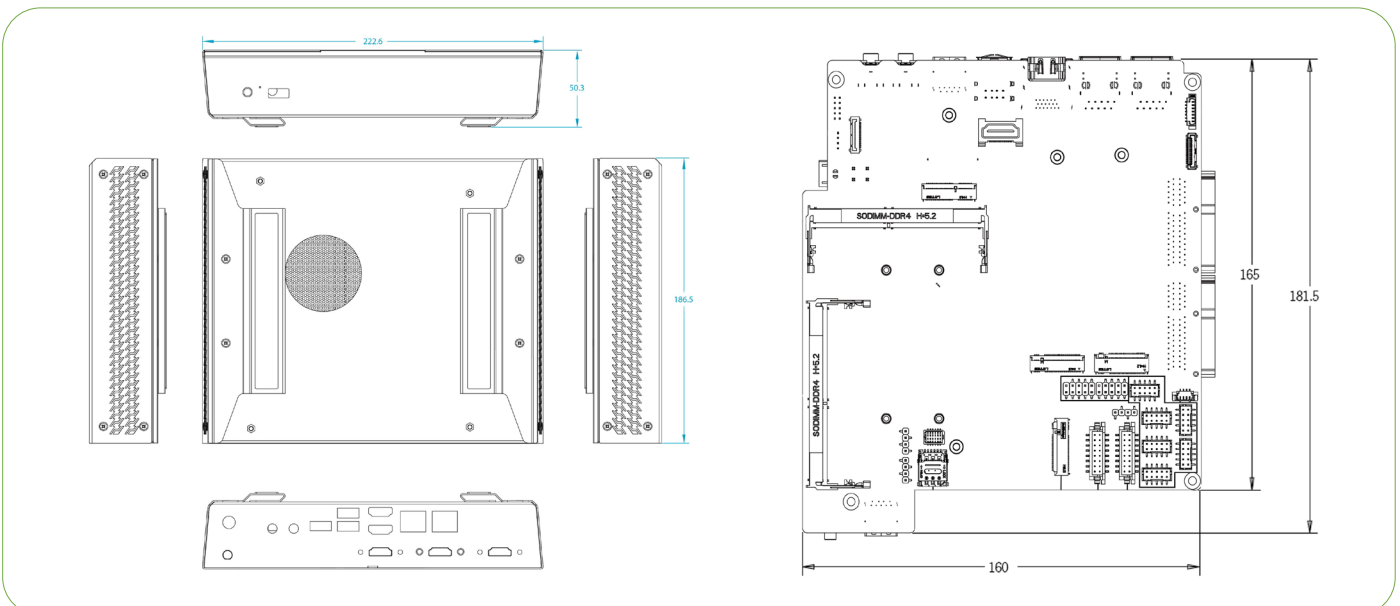
OS	Windows 10 64Bit Ubuntu 20.04 64Bit
SDK	Windows: C++, C#, .Net VB, Java, Python, Delphi, BCB, LabVIEW Linux: C, C++, Python, Java, nodeJS, .Net

Environment

Power Supply	DC input : 19V
Power Consumption	TBA
Operating Temperature	0~40 °C
Storage Temperature	-40~70 °C

Mechanical

- Dimension of case: 186.5mm (189.8mm) ×222.6mm×44.8mm (50.3mm)
- Dimension of main Board: 181.5mm×160mm
- Weight: TBA



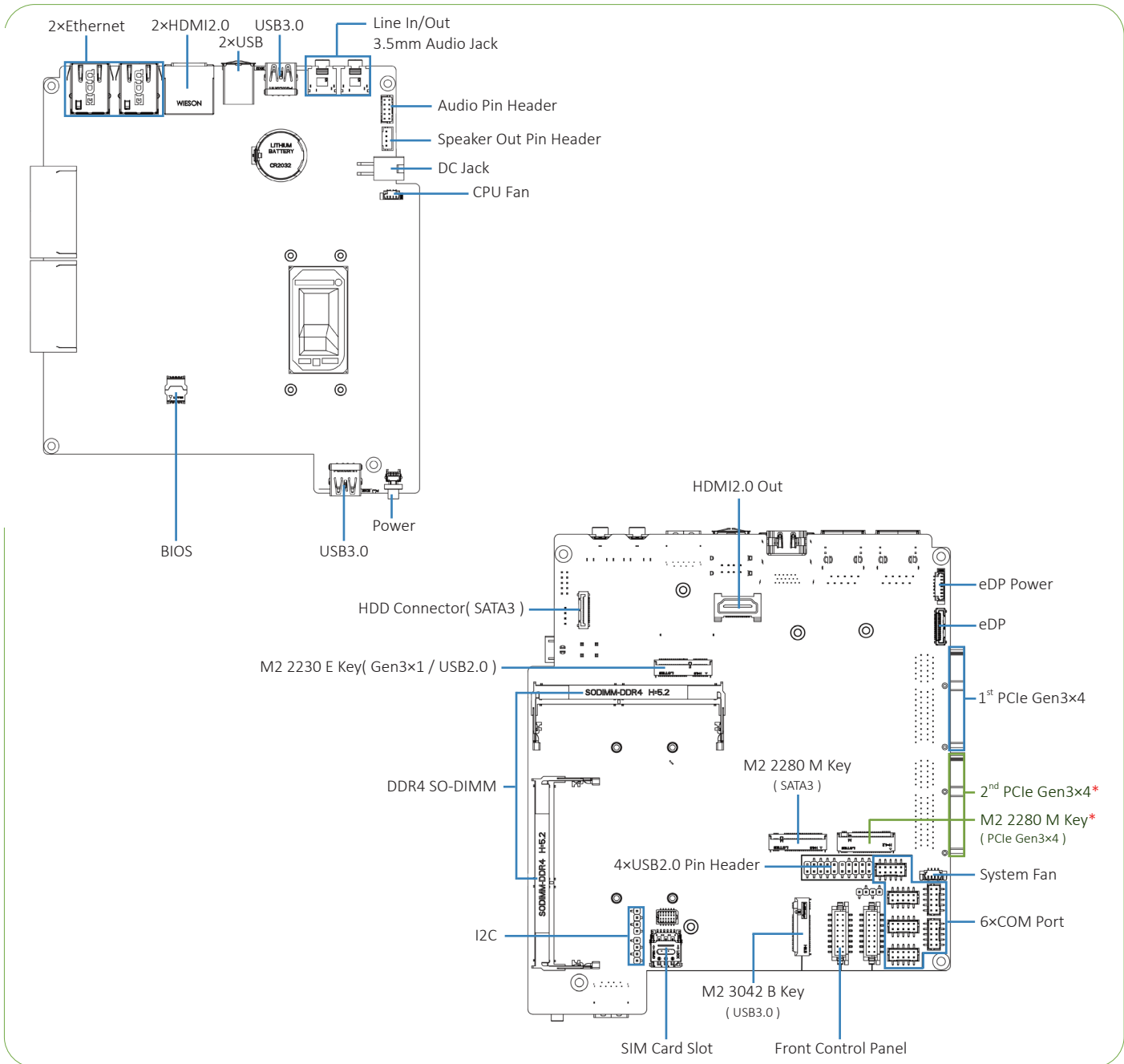
I/O Layout

• Case



* Interface of "Capture In" is based on a capture card.

• Carrier Board



* "2nd PCIe Gen3x4" and "M2 2280 M Key (PCIe Gen3x4)" share the same PCIe lanes.

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