

# VPP6T0 6305E

Entry 4K60 Encoder / Edge AI

YUAN  
Visualize Intelligent Planet

## Features

- Up to 8 TOPS AI Performance
- 1 Channel 4K60 Encode / Decode
- 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® Celeron® 6305E
GPU	Intel® UHD Graphics
AI Performance	8 TOPS
System Memory	2×8GB DDR4 3200MHz Dual Channel
Interface	
Storage	128GB M2 2280 SATA SSD 1×SATA
Display Interface	Rear Display 2×HDMI2.0
Ethernet	2×RJ45 for 10/100/1000Mbps Ethernet DHCP Client
Expansion Slot	PCIe 1×PCIe Gen3×4 Slot 1×PCIe Gen3×4 Slot ( Switch with M.2 M Key) M2 1×M2 2280 M Key PCIe Gen3×4 Slot ( Switch with 2nd PCIe ) 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 )
Misc. Features	With Option Front Panel Control Button ( Compatible with Stream Capture Pro )

## Add-On Cards / SDK / Software

Video Feature				
Capture Card ( Optional )	PCIe Model	Interface	Max. Resolution	Capture / Preview 4:2:2 10Bit P210 4:2:0 10Bit P010 4:4:4 8Bit YV24 4:4:4 8Bit RGB32 / 24 4:2:2 8Bit YUY2 4:2:0 8Bit YV12, NV12
	SC710N1-L HDMI2.0	1×HDMI2.0	4096×2160p@60/50fps	
	SC710N1 12G-SDI	1×12G-SDI	4096×2160p@60/50fps	
	SC400N4 HDMI	4×HDMI	1920×1080p@60/50fps	
	SC400N4 SDI	4×SDI	1920×1080p@60/50fps	
	M2 Model	Interface	Max. Resolution	
	SC710N1 M2 HDMI2.0	1×HDMI2.0	4096×2160p@60/50fps	
	SC710N1 M2 12G-SDI	1×12G-SDI	4096×2160p@60/50fps	
	SC400N1 M2 HDV	1×DVI-I, 1×YPbPr, 1×VGA	1920×1080p@60/50fps	
	Video Encode	H.265 ( HEVC ) 1×4K60   2×4K30   4×1080p60   8×1080p30		
H.264 1×4K60   2×4K30   4×1080p60   8×1080p30				
Video Decode	H.265 ( HEVC ) 1×4K60   2×4K30   4×1080p60   8×1080p30			
	H.264 1×4K60   2×4K30   4×1080p60   8×1080p30			
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 <b>*Separate License Required</b>			
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			



SC710N1-L HDMI2.0



SC710N1 12G-SDI



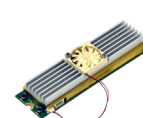
SC400N4 HDMI



SC400N4 SDI



SC710N1 M2 HDMI2.0

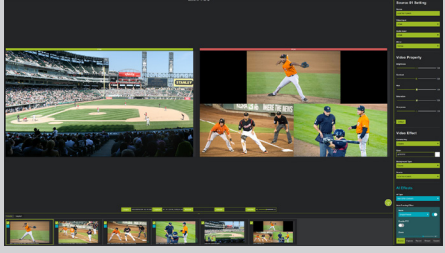
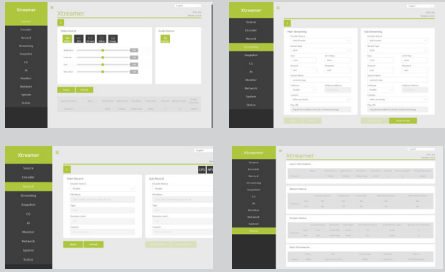


SC710N1 M2 12G-SDI



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	
Xstreamer	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

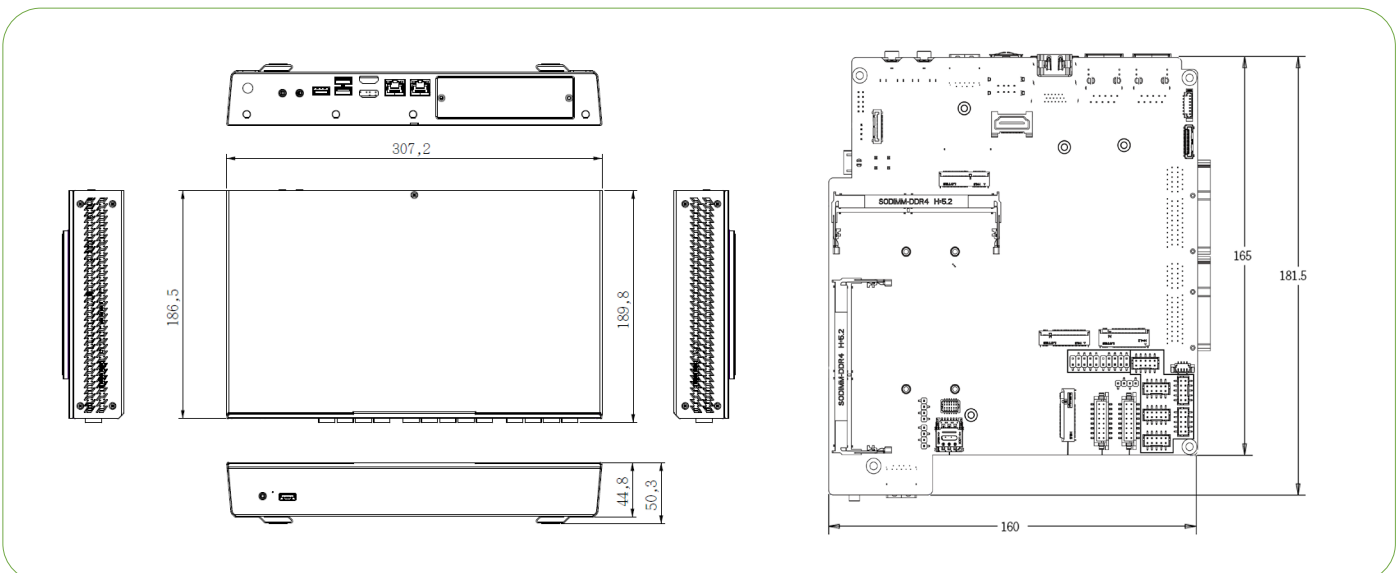
OS	Windows 10 64Bit Ubuntu 20.04 64Bit
SDK	Windows: C++, C#, .Net VB, Java, Python, Delphi, BCB, LabVIEW Linux: C, C++, Python, Java, nodeJS, .Net

### 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 ) ×307.2mm×44.8mm ( 50.3mm )
- Dimension of main Board: 181.5mm×160mm
- Weight: TBA

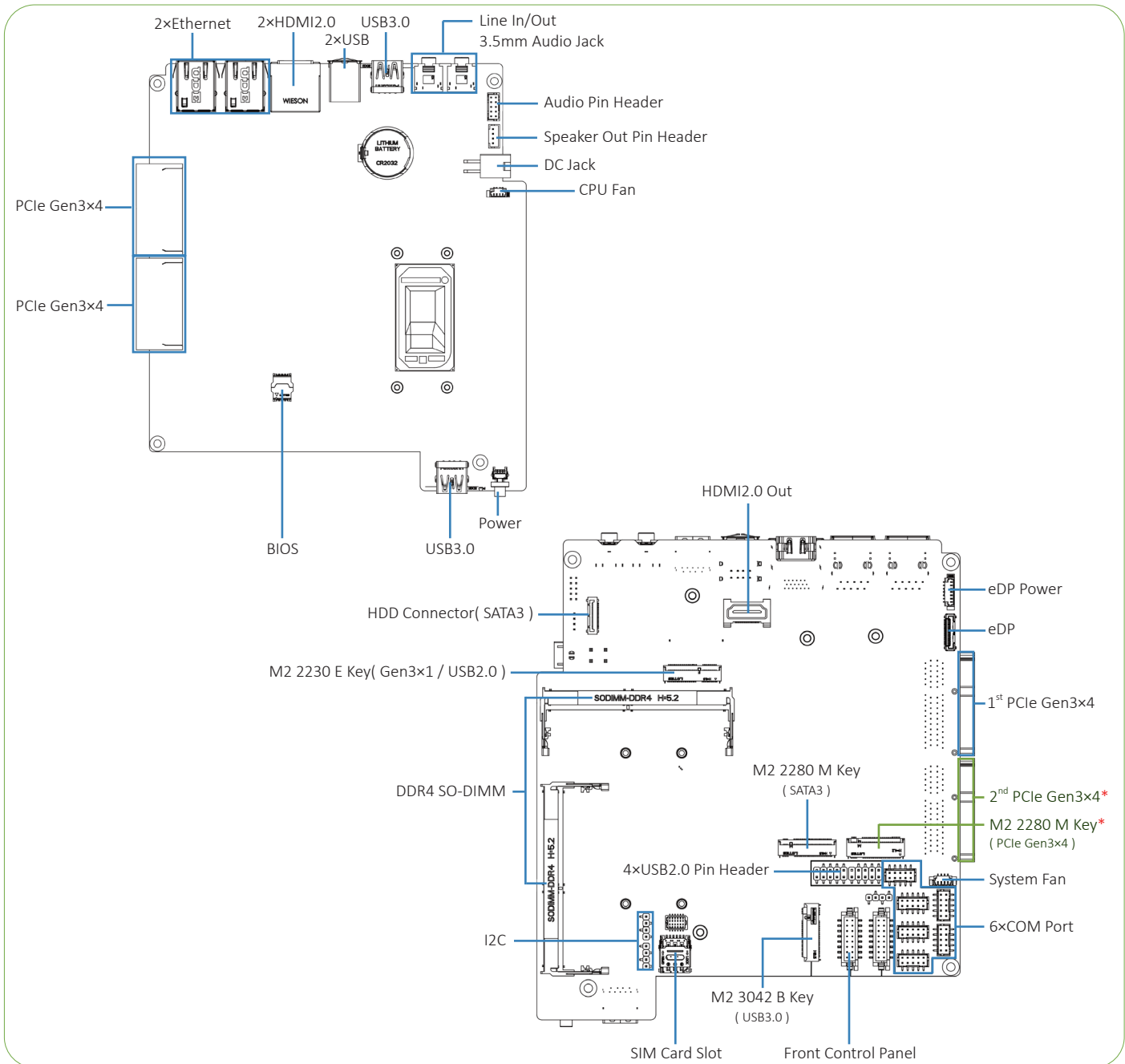


# I/O Layout

## • Case



## • Carrier Board



\* "2<sup>nd</sup> PCIe Gen3x4" and "M2 2280 M Key ( PCIe Gen3x4 )" share the same PCIe lanes.

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