



VIA ALTA DS 3

Commercial Grade
Dual 4K Android Edge AI System

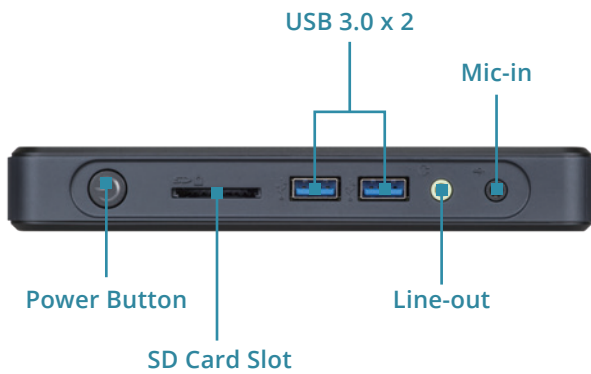


Accelerate your intelligent signage, kiosk, and access control device development and deployment with the VIA ALTA DS 3 Edge AI system. Powered by the Qualcomm® APQ8096SG Embedded Processor, the VIA ALTA DS 3 combines cutting-edge compute, graphics, and AI processing performance with dual 4K display support, rich connectivity options, and flexible camera and I/O peripheral integration capabilities in an ultra-compact fanless form factor. To facilitate software and AI application development, the VIA ALTA DS 3 comes with an Evaluation Kit Image (EVK) featuring Android 8.0 which includes the Qualcomm® Neural Processing SDK for artificial intelligence. With its flexible hardware, software, and AI integration options, the VIA ALTA DS 3 makes the development of smart multimedia-rich applications and devices a snap for any edge environment.

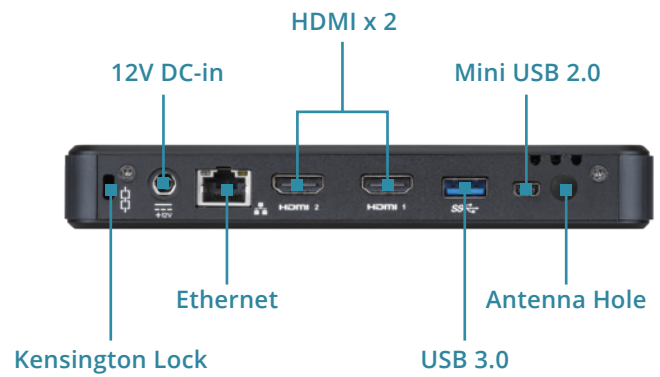
- ◆ Qualcomm® APQ8096SG Embedded Processor
- ◆ Supports dual 4K display resolution
- ◆ Features Qualcomm® Neural Processing SDK support
- ◆ Wi-Fi & Bluetooth 4.1 or 4G LTE wireless connectivity options
- ◆ Dual display mirror & independent video playback modes available
- ◆ EVK package featuring Android 8.0



VIA ALTA DS 3 Front Panel



VIA ALTA DS 3 Rear Panel



VIA ALTA DS 3 Specifications

Processor	Qualcomm® APQ8096SG Embedded Processor - Two high-performance Kryo cores up to 2.342GHz - Two low power Kryo cores up to 1.593GHz	
System Memory	4GB POP LPDDR4 RAM	
Storage	16GB eMMC flash memory M.2 slot for M.2 2280 NVMe SSD (PCIe 1 Lane) SD card slot	
Graphics	Qualcomm® Adreno™ 530 GPU 3D graphics accelerator with 64-bit addressing 624MHz Graphics engine supporting OpenGL ES 3.1/GEP, GL4.4, DX11.3/4, OpenCL 2.0, Renderscript-Next Supports H.264, H.265 (HEVC 8/10-bit) video decoding up to: 4K@60fps	
Trusted Platform Module	TPM1.2 : ST33TPM12I2C	
Wireless Connectivity	NFA324A-12H32 QCA6174A-1 Wi-Fi 802.11a/b/g/n/ac + BT 4.1 combo LGA module with antenna connector (optional)	
Audio	WCD9335 Audio Codec	
HDMI	Integrated HDMI 2.0 transmitter and dual DSI to HDMI 1.4 converter	
Expansion I/O	1 miniPCIe slot (USB only) 1 SIM card slot	1 M.2 slot
Front Panel I/O	2 USB 3.0 ports 1 SD card slot	2 Audio jacks: Line-out and Mic-in 1 Power Button with blue power LED
Back Panel I/O	2 HDMI ports 1 USB 3.0 port 1 Mini USB 2.0 port (fastboot mode only) 1 Gigabit Ethernet port	1 Antenna hole 1 DC-in jack 1 Kensington Lock
Power Supply	12V DC-in	
Operating System	Android 8.0	
Operating Temperature	0°C ~ 40°C	
Operating Humidity	0% ~ 95% @ 40°C (non-condensing)	
Storage Temperature	-20°C~ 70°C	
Mechanical Construction	Plastic frame Metal bracket	
Mounting	Stand holder, VESA mount (optional)	
Dimensions	175mm(W) x 25mm(H) x 188mm(D) (6.88" x 0.98" x 4.64")	
Weight	0.61kg (1.34lbs)	
Compliance	BSMI, CE, FCC	