



Entry-Level Embedded Computer



VM27

ELKHART LAKE FANLESS SIGNAGE PLAYER



Intel® Elkhart Lake
Celeron®/Pentium® processors



DP (4096 x 2160 @60 Hz)
HDMI (4096 x 2160 @60 Hz)



Long product life cycle



Fanless design

CPU

CPU	Intel® Celeron® N6210 processor Intel® Pentium® N6415 processor
Frequency	2.60 GHz/3.00 GHz
Chipset	Soc
Processing Units	2 Cores/4 Cores
TDP	6.5 W/6.5 W

System

System Memory	4 GB, Onboard LPDDR4-2666 MHz (Optional: 8 GB)
Storage	64 GB, Onboard eMMC5.1 (Optional: 32 GB) 1 x Full-size Mini-PCIe for MSATA
TPM	FTPM
Watchdog Timer	Yes
Auto Power On	Yes
RTC	Set up independently every day, a week as a cycle
Remo on	Yes
Power Requirement	DC-IN, 19 V/2.37 A
Dimensions	154mm x 125.5 mm x 40mm (6.06" x 4.94" x 1.57")
Construction	Metal, Black
Operating System	Windows 10 (64bit) /Windows 11 (64bit) Linux Ubuntu (64bit) /ChromeOS Flex
Operating Temperature	0°C ~45°C (32°F~113°F) @0.7m/s Air Flow
Humidity	95% @ 45°C (non-condensing)
Certifications	CE, FCC Class B

Network

Network Controller	1 x Realtek RTL 8111H Gigabit Ethernet
Ethernet Interface	1 x RJ45
Wi-Fi/BT	1 x E-Key M.2 (2230) for Wi-Fi/BT Support Wi-Fi 5, Wi-Fi 6
Mobile Network	NA

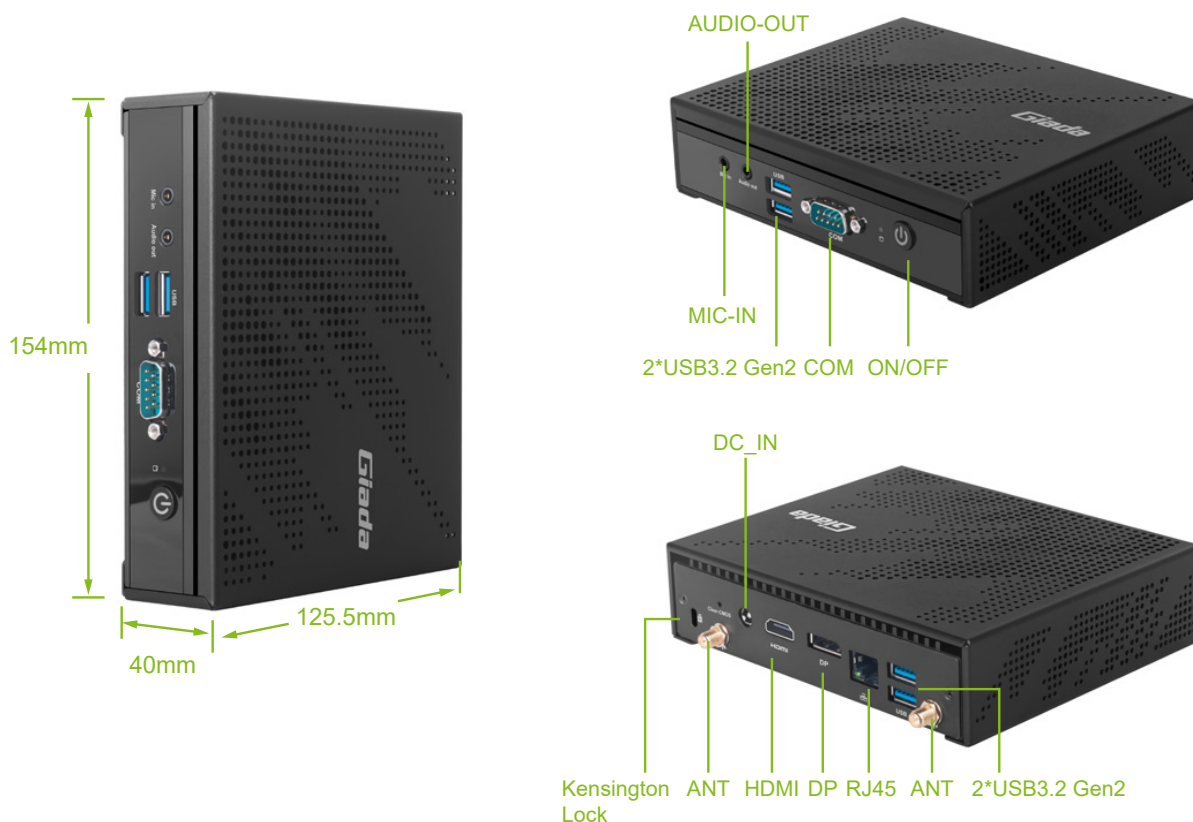
Display

GPU	Intel® UHD Graphics
Graphic Engine	DirectX 12.1, OpenGL 3.0, OpenCL 1.1, Intel® Quick Sync Video
Display Interface	1 x DP (Max.4096 x 2160 @60 Hz) 1 x HDMI (Max.4096 x 2160 @60 Hz)

I/O interface

USB	4 x USB3.2 Gen2 (10 Gbps)
Serial Port	1 x RS232
Audio	1 x MIC-IN, 1 x AUDIO-OUT
Button	1 x Power on, 1 x CLR-CMOS
Antenna	2 x Connector for Wi-Fi/BT

Dimensions and Drawing



Order information

VM27-N621042E6G-GIA	CPU: Intel® Celeron® N6210, RAM: 4 GB, Onboard LPDDR4-2666 MHz Storage: 64 GB, eMMC5.1
VM27-N641542E6G-GIA	CPU: Intel® Pentium® N6415, RAM: 4 GB, Onboard LPDDR4-2666 MHz Storage: 64 GB, eMMC5.1
Packing List	2 x Wi-Fi Antenna, 1 x AC Power Cable, 1 x AC Power Adapter
Package	Carton, EPE

Optional items

VESA Mounting	VESA Mounting Kit (JC501)
Wi-Fi/BT Module	Intel® Dual Band Wireless-AC 3165, Intel® Dual Band Wireless-AC 9260, Intel® Wi-Fi 6 AX200, Intel® Wi-Fi 6E AX210 (Gig+)
Operating System License	Windows 10 (64bit), Windows 11 (64bit), ChromeOS Flex 114

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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