



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

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

### System

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

### Network

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

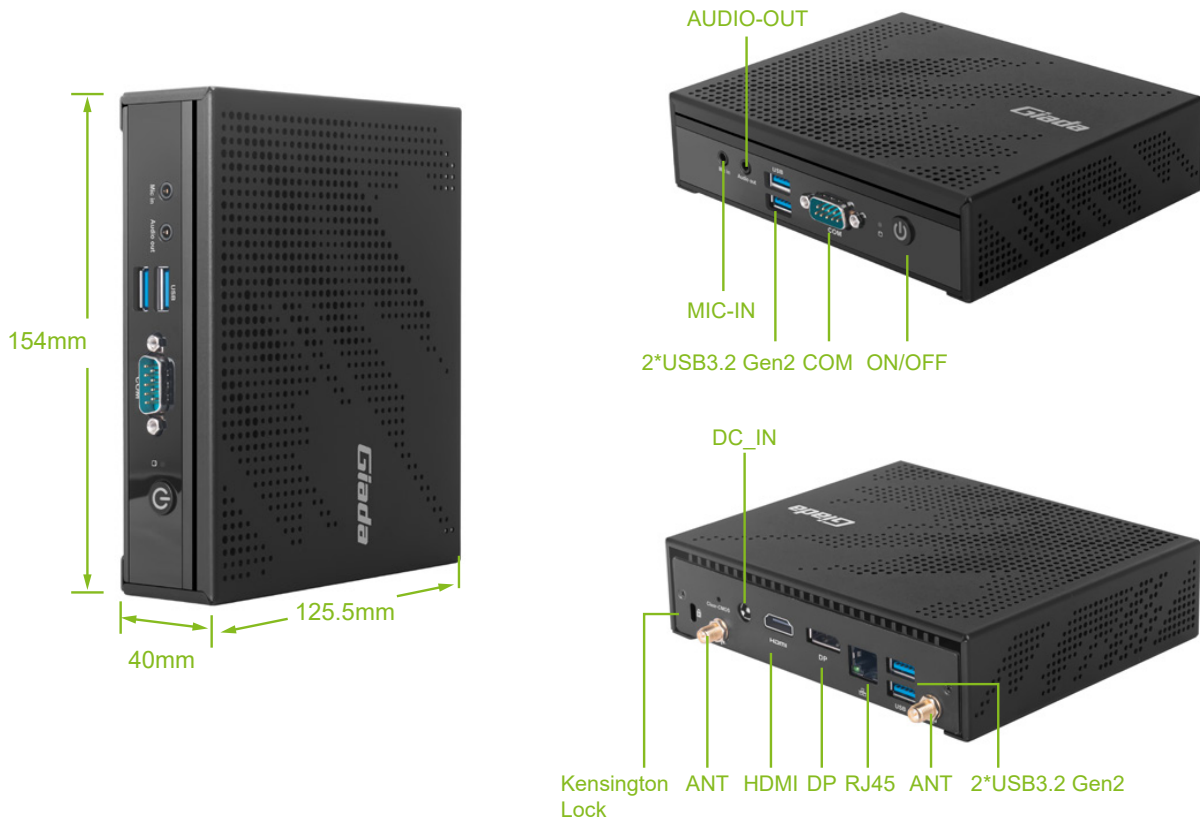
### Display

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

### I/O interface

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

## Dimensions and Drawing



## Order information

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

## Optional items

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



## Assured Systems

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