



# DF612

## ALDER LAKE FANLESS SIGNAGE PLAYER



Intel® Alder Lake-P  
Core processors



1 x DP (7680 x 4320 @60 Hz)  
2 x HDMI (4096 x 2304 @60 Hz)



Support Intel® vPro® technology



Fanless design

### CPU

|                         |   |
|-------------------------|---|
| <b>CPU</b>              | Intel® Core™ i3-1215U processor<br>Intel® Core™ i5-1235U processor<br>Intel® Core™ i7-1255U processor |
| <b>E-Core Frequency</b> | 3.30 GHz /3.30 GHz/3.50 GHz   |
| <b>P-Core Frequency</b> | 4.40 GHz /4.40 GHz/4.70 GHz   |
| <b>Chipset</b>          | SoC   |
| <b>Processing Units</b> | 6 Cores /10 Cores/10 Cores  |
| <b>Base Power</b>       | 15 W /15 W/15W  |

### Network

|                           |   |
|---------------------------|---|
| <b>Network Controller</b> | 1 x Intel i219-LM Gigabit Ethernet<br>1 x Realtek RTL8111H Gigabit Ethernet |
| <b>Ethernet Interface</b> | 2 x RJ45  |
| <b>Wi-Fi/BT</b>           | 1 x E-Key M.2 (2230) for Wi-Fi/BT<br>Support Wi-Fi 5/6/6E (CNVi)            |
| <b>Mobile Network</b>     | 1 x B-Key M.2 (3042) for 3G/4G,<br>1 x SIM Slot                             |

### System

|                              |   |
|------------------------------|---|
| <b>System Memory</b>         | Up to 64 GB, 2 x SO-DIMM DDR4-3200 MHz                              |
| <b>Storage</b>               | 1 x M-Key M.2 (2280) for PCIe SSD                                   |
| <b>TPM</b>                   | Optional: TPM2.0  |
| <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>               | NA  |
| <b>Power Requirement</b>     | DC-IN, 19 V/3.42 A  |
| <b>Dimensions</b>            | 200 mm x 150 mm x 40 mm (7.87" x 5.90" x 1.57")                     |
| <b>Construction</b>          | Metal, Grey   |
| <b>Fanless</b>               | Yes   |
| <b>Operating System</b>      | Windows 10-1909 (64bit)<br>Windows 11 (64bit) /Linux Ubuntu (64bit) |
| <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, UKCA   |

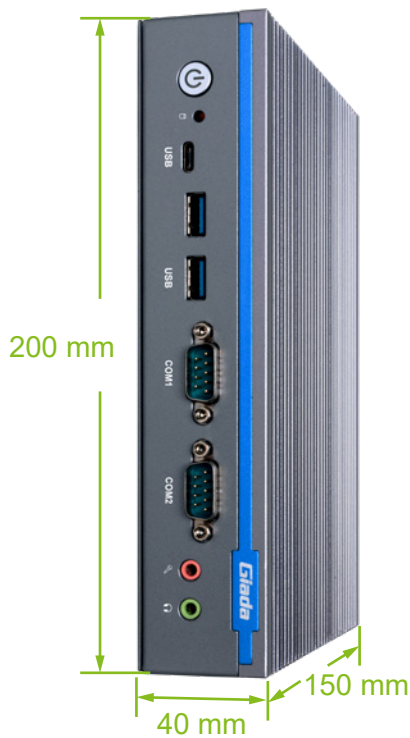
### Display

|                          |  |
|--------------------------|--|
| <b>GPU</b>               | Intel® UHD Graphics (Core i3)<br>Intel® Iris® X® Graphics (Core i5)      |
| <b>Graphic Engine</b>    | DirectX 12.1, OpenGL 4.6, OpenCL 3.0,<br>8K 60fps 12b 4:2:0 HEVC/VP9/SCC |
| <b>Display Interface</b> | 1 x DP (Max.7680 x 4320 @60 Hz)<br>2 x HDMI (Max.4096 x 2304 @60 Hz)     |

### I/O interface

|                    |  |
|--------------------|--|
| <b>USB</b>         | 1 x USB Type-C3.2 Gen2 (10 Gbps),<br>4 x USB3.2 Gen2 (10 Gbps), 2 x USB2.0 |
| <b>Serial Port</b> | 1 x RS232, 1 x RS232/422/485   |
| <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<br>2 x Connector for 3G/4G (Reserved)           |

## Dimensions and Drawing



## Order information

|                             |  |
|-----------------------------|--|
| <b>DF612-1215U40N0G-GIA</b> | CPU: Intel Core i3-1215U                                       |
| <b>DF612-1235U40N0G-GIA</b> | CPU: Intel Core i5-1235U                                       |
| <b>Packing List</b>         | 2 x Wi-Fi Antenna,<br>1 x AC Power Cable, 1 x AC Power Adapter |
| <b>Package</b>              | Carton, EPE  |

## Optional items

|                                 |   |
|---------------------------------|---|
| <b>VESA Mounting</b>            | VESA Mounting Kit   |
| <b>Wi-Fi/BT Module</b>          | Intel® Dual Band Wireless-AC 3165, Intel® Dual Band Wireless-AC 9260,<br>Intel® Wi-Fi 6 AX200, Intel® Wi-Fi 6E AX210 (Gig+) |
| <b>Mobile Network Module</b>    | Quectel® EM12 4G  |
| <b>Operating System License</b> | Windows 11 (64bit)  |