

# KIT-ADN Series

Industrial Open Frame Panel PC



## KEY FEATURES



### Touch Screen

P-Capacitive Touch supports 10 points



### LPDDR5

LPDDR5 4800 MHz memory down



### Up to Quad Display Support

Support via HDMI/USB-C/LVDS



### Easy Integration

Easy installation and maintenance

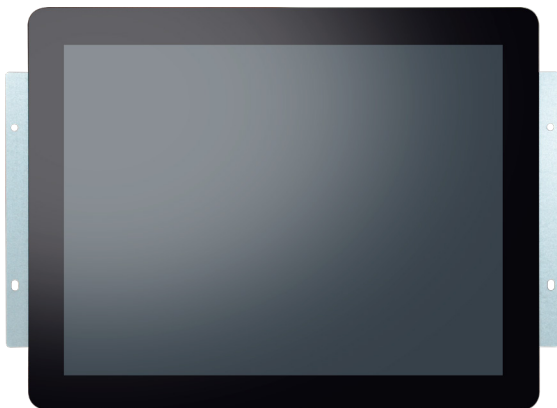


### On Board OOB Built-in (Opt.)

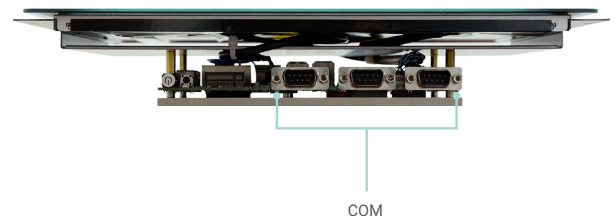
Hardware status remote control & monitor



## Panel

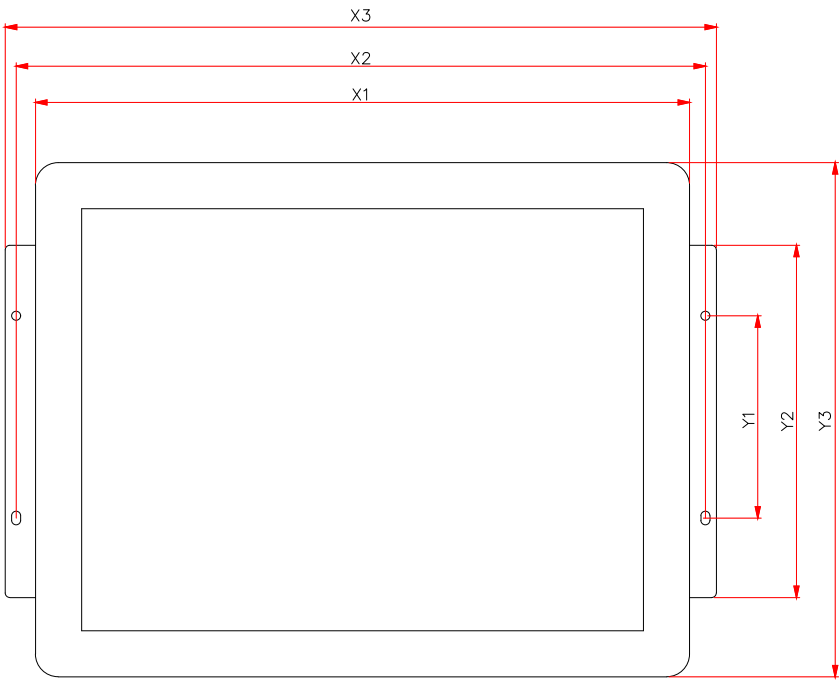


Front View



I/O View

DIMENSIONS



|              | LCD Dimensions |       | Bracket Dimensions |     | Screw-hole Dimensions |    |
|--------------|----------------|-------|--------------------|-----|-----------------------|----|
| Display Type | X1             | Y3    | X3                 | Y2  | X2                    | Y1 |
| 10.1" LCD    | 254.3          | 173   | 279.1              | 132 | 269.5                 | 74 |
| 12.1" LCD    | 287.8          | 226.3 | 312.9              | 157 | 303.3                 | 89 |

Note: The tolerance of dimensions is +- 0.3mm

## SPECIFICATION

| Model Name             |                       | KIT101P-ADN                                                                                                                                                                                                                                                                                                                                                                                                                                      | KIT121P-ADN                                                                                                                                                                                                           |
|------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DISPLAY & TOUCH SCREEN | Display Type          | 10.1" TFT LCD                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.1" TFT LCD                                                                                                                                                                                                         |
|                        | Aspect Ratio          | 16:10                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4:3                                                                                                                                                                                                                   |
|                        | Max. Resolution       | 1280 x 800                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1024 x 768                                                                                                                                                                                                            |
|                        | Brightness            | 500 cd/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                            | 500 cd/m <sup>2</sup>                                                                                                                                                                                                 |
|                        | Touch Type            | Projected Capacitive                                                                                                                                                                                                                                                                                                                                                                                                                             | Projected Capacitive                                                                                                                                                                                                  |
|                        | Backlight Lifetime    | 50,000 hours                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30,000 hours                                                                                                                                                                                                          |
| ENVIRONMENT            | Operating Temperature | 0~50°C with 0.6m/s air flow                                                                                                                                                                                                                                                                                                                                                                                                                      | 0~50°C with 0.6m/s air flow                                                                                                                                                                                           |
|                        | Storage Temperature   | -30~80°C                                                                                                                                                                                                                                                                                                                                                                                                                                         | -30~80°C                                                                                                                                                                                                              |
|                        | Relative Humidity     | 5 to 90% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                     | 5 to 90% RH (non-condensing)                                                                                                                                                                                          |
| SYSTEM                 | Processor             | Intel Alder Lake-N Series<br>Intel PC Client Series<br>Intel® Processor N50 2 Cores, 1.0GHz to 3.4 GHz<br>Intel® Processor N97 4 Cores, 2.0GHz to 2.9 GHz<br>Intel® Processor N200 4 Cores, 1.0GHz to 3.2 GHz<br>Intel® Core™ i3-N305 8 Cores, 1.0GHz to 3.0 GHz<br>Intel® Embedded Series<br>Intel® Atom® X7211E 2 Cores, 1.0GHz to 2.9 GHz<br>Intel® Atom® X7213E 2 Cores, 1.7GHz to 2.9 GHz<br>Intel® Atom® X7425E 4 Cores, 1.5GHz to 2.7 GHz |                                                                                                                                                                                                                       |
|                        | Memory                | 8GB/16GB LPDDR5 4800 Memory down                                                                                                                                                                                                                                                                                                                                                                                                                 | 8GB/16GB LPDDR5 4800 Memory down                                                                                                                                                                                      |
|                        | BIOS                  | AMI SPI 256Mbit (supports UEFI boot only)                                                                                                                                                                                                                                                                                                                                                                                                        | AMI SPI 256Mbit (supports UEFI boot only)                                                                                                                                                                             |
|                        | Graphics              | Intel® UHD Graphics                                                                                                                                                                                                                                                                                                                                                                                                                              | Intel® UHD Graphics                                                                                                                                                                                                   |
| GRAPHICS               | Controller            | Intel® UHD Graphics                                                                                                                                                                                                                                                                                                                                                                                                                              | Intel® UHD Graphics                                                                                                                                                                                                   |
|                        | Feature               | <b>Execution Units:</b> Up to 32 EUs<br><b>3D API:</b><br>Open GL 4.6, DirectX12, Vulkan 1.2 (Windows)<br>Mesa 3D, OpenGL 4.6, Vulkan 1.2 (Linux)<br><b>Precision:</b> FP32, FP16, INT8<br><b>Compute:</b> OpenCL 3.0                                                                                                                                                                                                                            | <b>Execution Units:</b> Up to 32 EUs<br><b>3D API:</b><br>Open GL 4.6, DirectX12, Vulkan 1.2 (Windows)<br>Mesa 3D, OpenGL 4.6, Vulkan 1.2 (Linux)<br><b>Precision:</b> FP32, FP16, INT8<br><b>Compute:</b> OpenCL 3.0 |
|                        | Display               | 1 x eDP/LVDS(Default)<br>1 x HDMI 1.4<br>1 x USB-C Alt. Mode, one more USB-C(opt.)                                                                                                                                                                                                                                                                                                                                                               | 1 x eDP/LVDS(Default)<br>1 x HDMI 1.4<br>1 x USB-C Alt. Mode, one more USB-C(opt.)                                                                                                                                    |
| STORAGE                | Internal              | 1 x M.2 2242/2280 M key (SATA/PCIe)<br>1 x SATA III                                                                                                                                                                                                                                                                                                                                                                                              | 1 x M.2 2242/2280 M key (SATA/PCIe)<br>1 x SATA III                                                                                                                                                                   |
|                        | eMMC                  | eMMC 32GB/64GB (Opt.)                                                                                                                                                                                                                                                                                                                                                                                                                            | eMMC 32GB/64GB (Opt.)                                                                                                                                                                                                 |
| EXPANSION              | Interface             | 1 x M.2 2242/2280 M key (PCIex1/SATA)<br>1 x M.2 2230 E Key (USB2.0/PCIe)<br>1 x M.2 3042/3052 B key (USB3.0/USB2.0/PCIe)                                                                                                                                                                                                                                                                                                                        | 1 x M.2 2242/2280 M key (PCIex1/SATA)<br>1 x M.2 2230 E Key (USB2.0/PCIe)<br>1 x M.2 3042/3052 B key (USB3.0/USB2.0/PCIe)                                                                                             |
| AUDIO                  | Audio Codec           | ALC888S                                                                                                                                                                                                                                                                                                                                                                                                                                          | ALC888S                                                                                                                                                                                                               |
| ETHERNET               | Controller            | 2 x Intel Ethernet controller i226 2.5GbE (support TSN)<br>1 x Intel Ethernet controller i210 GbE                                                                                                                                                                                                                                                                                                                                                | 2 x Intel Ethernet controller i226 2.5GbE (support TSN)<br>1 x Intel Ethernet controller i210 GbE                                                                                                                     |
| FRONT I/O              | Serial                | 3 x RS232/422/485 DB9 connector                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 x RS232/422/485 DB9 connector                                                                                                                                                                                       |
| INTERNAL I/O           | Serial                | 2 x RS232                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2 x RS232                                                                                                                                                                                                             |
|                        | Display               | 1 x 40 pin LVDS/eDP (Default LVDS)                                                                                                                                                                                                                                                                                                                                                                                                               | 1 x 40 pin LVDS/eDP (Default LVDS)                                                                                                                                                                                    |
|                        | SATA                  | 1 x SATA 3.0<br>1 x 5V SATA Power (support SATA HDD LED via front panel)                                                                                                                                                                                                                                                                                                                                                                         | 1 x SATA 3.0<br>1 x 5V SATA Power (support SATA HDD LED via front panel)                                                                                                                                              |
|                        | Front Panel           | 1 x front panel                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 x front panel                                                                                                                                                                                                       |
|                        | SMBus                 | 1 x SMBus                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 x SMBus                                                                                                                                                                                                             |
| REAR I/O               | Ethernet              | 2 x 2.5GbE RJ45<br>1 x GbE RJ45                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 x 2.5GbE RJ45<br>1 x GbE RJ45                                                                                                                                                                                       |
|                        | Serial                | 1 x COM/DIO port                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 x COM/DIO port                                                                                                                                                                                                      |
|                        | USB                   | 3 x USB 3.2 type A<br>1 x USB-C 3.2                                                                                                                                                                                                                                                                                                                                                                                                              | 3 x USB 3.2 type A<br>1 x USB-C 3.2                                                                                                                                                                                   |
|                        | Display               | 1 x HDMI                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 x HDMI                                                                                                                                                                                                              |
|                        | Audio                 | 1 x 3.5mm Line out/Mic In                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 x 3.5mm Line out/Mic In                                                                                                                                                                                             |
|                        | Storage               | 1 x MicroSD                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 x MicroSD                                                                                                                                                                                                           |
| WATCHDOG TIMER         | Output & Interval     | System Reset, Programmable via Software from 1 to 255 Seconds                                                                                                                                                                                                                                                                                                                                                                                    | System Reset, Programmable via Software from 1 to 255 Seconds                                                                                                                                                         |
| SECURITY               | TPM                   | TPM 2.0 (Available Upon Request)                                                                                                                                                                                                                                                                                                                                                                                                                 | TPM 2.0 (Available Upon Request)                                                                                                                                                                                      |
| POWER                  | Type                  | Wide Range 9~36VDC                                                                                                                                                                                                                                                                                                                                                                                                                               | Wide Range 9~36VDC                                                                                                                                                                                                    |
|                        | Connector             | DC Jack (or vertical type 4pin connector)                                                                                                                                                                                                                                                                                                                                                                                                        | DC Jack (or vertical type 4pin connector)                                                                                                                                                                             |
|                        | RTC Battery           | CR2032 Coin Cell                                                                                                                                                                                                                                                                                                                                                                                                                                 | CR2032 Coin Cell                                                                                                                                                                                                      |
| OS SUPPORT             | Microsoft             | Windows 11 IoT Enterprise                                                                                                                                                                                                                                                                                                                                                                                                                        | Windows 11 IoT Enterprise                                                                                                                                                                                             |
|                        | Linux                 | Ubuntu 22.04                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ubuntu 22.04                                                                                                                                                                                                          |
| MECHANISM              | Dimension (W x H x D) | 279.1 x 172.95 x 76.4                                                                                                                                                                                                                                                                                                                                                                                                                            | 312.9 x 226.25 x 78                                                                                                                                                                                                   |
|                        | Weight                | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                              | TBD                                                                                                                                                                                                                   |
| CERTIFICATION          | Certification         | CE / FCC Class A / RoHS                                                                                                                                                                                                                                                                                                                                                                                                                          | CE / FCC Class A / RoHS                                                                                                                                                                                               |

ORDERING INFORMATION

| Model Name  | Part Number      | Display Type              | Touch Type                    | Processor            | Memory | Power                     |
|-------------|------------------|---------------------------|-------------------------------|----------------------|--------|---------------------------|
| KIT101P-ADN | 750-KIT1011-000G | 10.1" TFT WXGA Open frame | Projected<br>Capacitive Touch | Intel® Processor N97 | 8GB    | DC Input 9-36V<br>DC jack |
| KIT121P-ADN | 750-KIT1211-000G | 12.1" TFT WXGA Open frame |                               |                      |        |                           |

PACKING LIST

|                                      |
|--------------------------------------|
| • 1 x Open Frame Panel PC            |
| • 1 x 2-pin Terminal Block Connector |
| • 2 x M2 Screw                       |
| • 1 x Terminal block for RS485       |