



Features

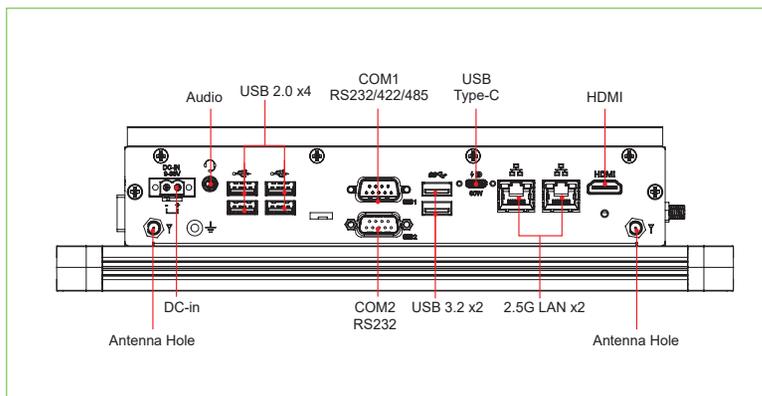
- Intel® Atom® x7000E Series / N-series / Core™ 3 N355 Processors
- Compliance with 6mm T and V-Slot™ Standard Groove
- 12.1" flat LCD panel with projected capacitive touchscreen
- IP65 Front Panel Waterproof Design
- Rich I/O supports 2x COM, 4x Optional Power COM, 4x DI, 4x DO, USB Type-C with PD 60W Alternate mode and 6x USB (2x USB 3.2 + 4x USB 2.0)
- Supports M.2 sockets for Wi-Fi / BT and 4G/5G communication with a Nano SIM slot
- Supports hardware TPM2.0 security
- Wide Range Power Input +9V ~ 36V DC-in

Specifications

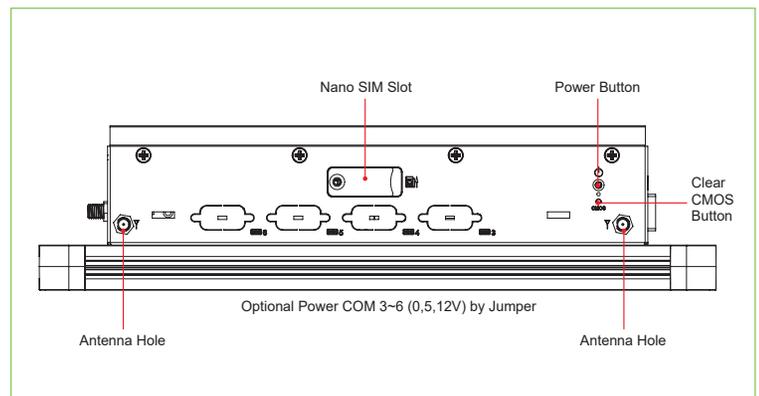
| | | |
|------------------------|-------------------------|---|
| Display & Touch Screen | Display Size | 12.1" |
| | Max. Resolution | 1024 x 768 |
| | Luminance (cd/m2) | 500 |
| | Contrast | 1000:1 |
| | Max. Color | 16.7M |
| | View Angle (H/V) | 178/178 |
| | Backlight Lifetime(hrs) | 30,000 |
| | Touch Type | Projected capacitive |
| | Touch Interface | USB |
| | Light Transmission (%) | 85 |
| Point of touch | Up to 10 | |
| System | Processor | Intel® Atom™ N97 Processor (4 Cores) up to 3.6G Intel® Atom™ N150 Processor (4 Cores) up to 3.6G Intel® Core™ i3 N305 Processor (8 Cores) up to 3.8G Intel® Core™ 3 N355 Processor (8 Cores) up to 3.9G Intel® Atom™ X7835RE Processor (8 Cores) up to 3.6G |
| | Memory | 1x DDR4 SO-DIMM, up to 16GB |
| | Thermal Design | Fanless |
| | Membrane Control | None |
| | Built-in Speaker/Mic | None |
| Expansion | Internal Expansion Bus | 1x M.2 2280 (M key + B-key) 1x M.2 2230 (E-key) 1x M.2 3043 (B-key) |
| | Expansion Slot | N/A |
| | Wireless | Optional Wi-Fi/BT/4G/5G/LTE |
| Storage Space | HDD | N/A |
| | Removable | N/A |

| | | |
|---------------|------------------------------------|---|
| I/O Interface | USB 3.0 | 2x USB 3.2 1x USB Type-C (Alternate mode w/ PD 60W) |
| | USB 2.0 | 4 |
| | RS-232/422/485 Selectable via BIOS | COM 1 |
| | RS-232 | COM2 and optional 3~6 |
| | LAN | 2x GbE |
| | Additional Graphics | HDMI 1x USB-C (DP Alternate mode) |
| | Audio | Combo Jack |
| | Digital I/O | 4x DI and 4x DO |
| | Power Connector | 2-pin bare-wire DC-in & GND screw |
| | Power Button | Tact Switch |
| Power | Power Input Range | DC +9V~36V |
| Mechanical | Dimensions (mm) | 303.4 x 242 x 72.9 |
| | Net Weight (kgs) | 3.6 |
| Environmental | Operating Temperature | N97, N305 and N305: -20°C~50°C (-4°F~122°F) N150: -20°C~70°C (-4°F~158°F) *with airflow x7835RE: -30°C~60°C (-22°F~140°F) *with airflow |
| | Storage Temperature | -30~80°C (-22°F~176°F) |
| | Storage Humidity | 10%~90% (non-condensing) |
| | Certification | CE/FCC Class-B and LVD |
| | Supported Operating Systems | Windows 10, 11 / Linux Kernel 4+ |
| Construction | Chassis Material | Aluminum and SGCC |
| | Color (Front/Back) | Gray / Black |
| | IP Rating | IP66 front-panel waterproof protection |
| | Mounting | VESA 75x75 and 100x100 mm, Panel Mount and optional side mount |

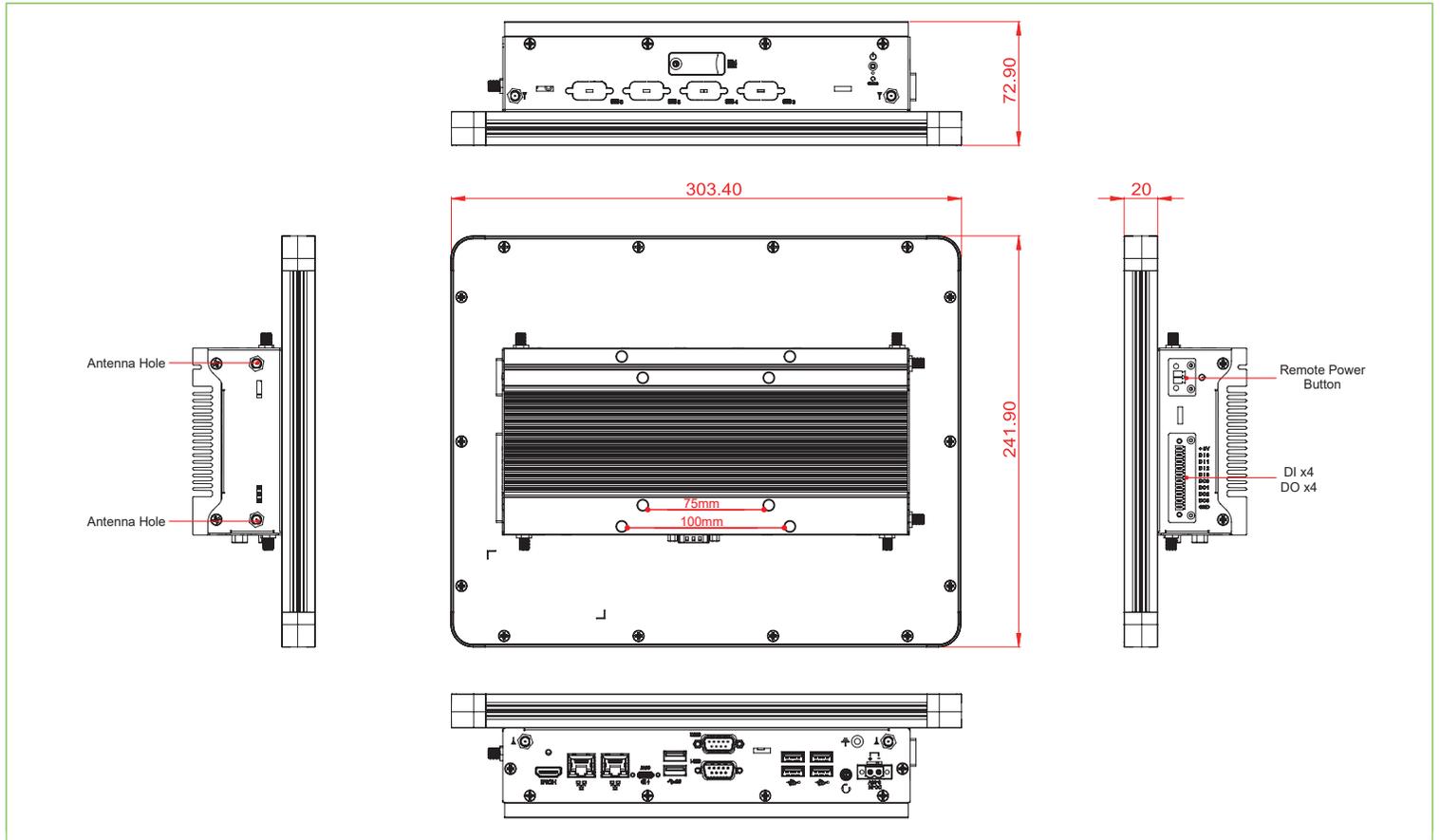
Rear External I/O



Front External I/O



Dimensions



Ordering Information

| Model Number | CPU | RAM | Storage | Display | LAN | USB | COM Ports | Audio | M.2 or Mini PCI-E | Power Input | Note |
|-----------------|--------------------------------|-----|---------|---------|---------|--------------------------------------|-----------|-------|-------------------|------------------|----------------------------|
| IPPC-121-N97-M | Intel® Atom™ N97 Processor | N/A | N/A | 1x HDMI | 2x 2.5G | 4x USB 2.0 2x USB 3.2 1x USB-C | 2 | 1 | 3 | DC-in +9V~36V | USB Type-C Supports PD 60W |
| IPPC-121-N150-M | Intel® Atom™ N150 Processor | | | | | | | | | | |
| IPPC-121-N305-M | Intel® Core™ i3 N305 Processor | | | | | | | | | | |
| IPPC-121-N355-M | Intel® Core™ 3 N355 Processor | | | | | | | | | | |
| IPPC-121-7835-M | Intel® Atom™ x7835RE Processor | | | | | | | | | | |

Packing List

| Part Number | Description | Qty. |
|--------------------|--|------|
| - | IPPC-121 series Panel PC | 1 |
| D2MANUAL--0000100P | Manuals & Driver download instructions | 1 |
| C1216ESD02105000P | DC-in Dinkle bare wire converter | 1 |
| C1216EC3802103000P | POWER SW Dinkle bare wire converter | 1 |
| C1216EC3810103000P | DIO Dinkle bare wire converter | 1 |
| H03320M5010101000P | M5 T-Nut for T/V slot | 10 |

Optional Items

| Part Number | Description | Qty. |
|--------------------|--|------|
| A005PS090W0100710P | AC 100V~240V Adaptor 90W DC 24V/3.75A | 1 |
| A005PS180W0100800P | AC 100V~240V Adaptor 180W DC 24V/7.5A | 1 |
| A030PCEUR03000000P | EU AC Power Cord (183CM) | 1 |
| A030PCEN020100000P | UK AC Power Cord (183CM) | 1 |
| A030PCAM040100000P | US AC Power Cord (183CM) | 1 |
| A030PCJP050001000P | JP AC Power Cord (183CM) | 1 |
| H06Z01RAAMS3XX00AP | DIN-Rail KIT with screw | 1 |
| C501PK15609202B00P | CBL;PK1-56B 2-HD 9C (10CM) for COM 3,4 | 2 |
| C501PK15609202000P | CBL;PK1-56 2-HD 9C (25CM) for COM 5,6 | 2 |
| SC3IPPLW156A10100R | Panel Mount KIT | 1 |

- When connecting to an IPPL high-brightness >700nits or using it in a high-temperature >45°C environment for a long time, please choose 180W.



- Other panel size requirements. Please contact sales.