

03 OMNI-2155-SKU

Industrial Modular Touch Panel Solutions

15.6" Modular Panel PC with Intel® 6th Generation i5-6300U/Celeron® 3955U Processor



Features

- 15.6" FWXGA (1366 x 768) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection
- Easily Expandable I/O by AAEON OMNI I/O Modules



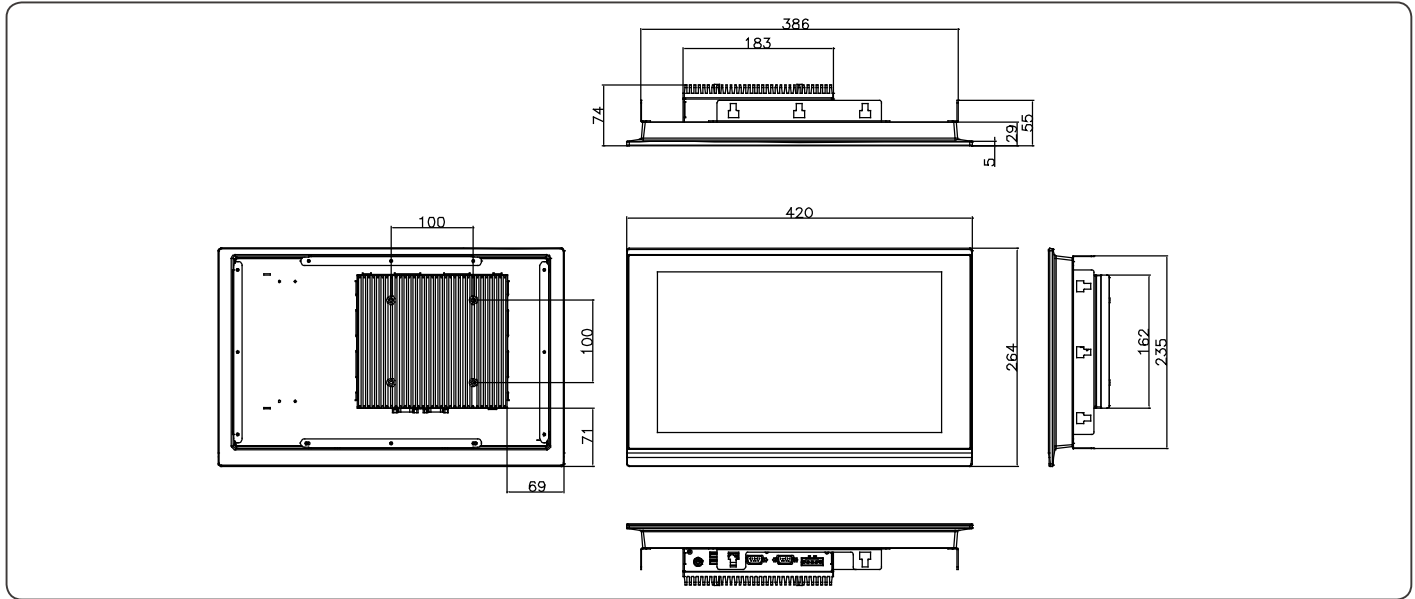
Specifications

System	
Processor	Intel® i5-6300U processor, 2.4 GHz Intel® Celeron 3955U processor, 2.0 GHz
System Memory	260-pin DDR4 SODIMM x 1, up to 8GB
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000Base-TX x 1
I/O Port	USB 3.0 type A x 4 SMA Antenna hole x 1 HDMI x 1 DB-9 Type RS-232/422/485 x 2 RJ-45 x 1 for 10/100/1000 base-TX 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	2.5" SATA HDD bay x 1
Expansion Slot	Mini card x 1 (Testing Compatibility Only)(Full Size) SIM card x 1 PCIe Type OMNI I/O connector x 1 (AAEON Pin Define)
OS support	Window 7 Window® 8.1 Window® 10 Linux Kernel 2.6.x or above
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	Wall /VESA Mount/Desktop (Optional panel mount kits)
Dimension (mm)	420 x 265 x 60 mm
Gross Weight	6.8 kg
Environmental	
Operating Temperature	-20°C ~ 55°C with 0.5 m/s airflow (Industrial Grade HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing
Anti-Vibration	1 Grms / 5~ 500Hz / operation – with HDD
Certification	CE/FCC class A
Power Supply	
DC input	DC 9(min) ~ 30 (max) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	15.6" TFT-LCD, LED
Max. Resolution	1366(H)x768(V)
Max. Colors	16.7M (8 bit/color)
Luminance	400 cd/m ²
Viewing Angle	160 (H), 140 (V)
Back Light	LED
Back Light MTBF (hours)	—
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%) 5-wire Resistive (80% ± 2%)

OMNI-2155-SKU

Dimension

Unit: mm



Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	Backlight MTBF	CPU	LAN	USB 3.0	USB 2.0	RS-232	RS-232/422/485	Storage	RAM	Display	Expansion	Mounting	Power	Temp.	Touch
Panel PC	OMNI-2155HTT-SKU-A1-1010	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H) / 140(V)	50,000	Intel® i5-6300U, 2.4 GHz	1	4	0	—	2	2.5" SATA HDD	Support DDR4, up to 16GB	HDMI x 1	Full size mini card x 1	Panel, VESA 75	DC 9-30V	-20°C ~ 55°C (w/ airflow)	5-wire Resistive
	OMNI-2155HTT-SKU-A2-1010	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H) / 140(V)	50,000	Intel® Celeron 3955U, 2 GHz	1	4	0	—	2	2.5" SATA HDD	Support DDR4, up to 16GB	HDMI x 1	Full size mini card x 1	Panel, VESA 75	DC 9-30V	-20°C ~ 55°C (w/ airflow)	5-wire Resistive
	OMNI-2155HTT-SKU-A3-1010	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H) / 140(V)	50,000	Intel® i5-6300U, 2.4 GHz	1	4	0	—	2	2.5" SATA HDD	Support DDR4, up to 16GB	HDMI x 1	Full size mini card x 1	Panel, VESA 75	DC 9-30V	-20°C ~ 55°C (w/ airflow)	Projected Capacitive
	OMNI-2155HTT-SKU-A4-1010	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H) / 140(V)	50,000	Intel® Celeron 3955U, 2 GHz	1	4	0	—	2	2.5" SATA HDD	Support DDR4, up to 16GB	HDMI x 1	Full size mini card x 1	Panel, VESA 75	DC 9-30V	-20°C ~ 55°C (w/ airflow)	Projected Capacitive
Panel Kit	OMNI-215DHTT-KIT-A1-1010	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H) / 140(V)	50,000	—	—	—	—	—	—	—	—	—	—	—	—	-20°C ~ 55°C (w/ airflow)	5-wire Resistive
	OMNI-215DHTT-KIT-A2-1010	15.6" TFT-LCD	1366 x 768	400 cd/m ²	160(H) / 140(V)	50,000	—	—	—	—	—	—	—	—	—	—	—	—	-20°C ~ 55°C (w/ airflow)	Projected Capacitive
CPU Box Kit	OMNI-SKU-KIT-A1-1010	—	—	—	—	—	Intel® Celeron 3955U, 2GHz	1	4	0	—	2	2.5" SATA HDD	Support DDR4, up to 16GB	HDMI x 1	Full size mini card x 1	—	DC 9-30V	-20°C ~ 55°C (w/ airflow)	Support AAEON OMNI-Display Kit
	OMNI-SKU-KIT-A2-1010	—	—	—	—	—	Intel® Celeron 3955U, 2GHz	1	4	0	—	2	2.5" SATA HDD	Support DDR4, up to 16GB	HDMI x 1	Full size mini card x 1	—	DC 9-30V	-20°C ~ 55°C (w/ airflow)	Support AAEON OMNI-Display Kit

*Note: 1. AAEON OMNI modular display kit only workable for OMNI-BOX Kit 2. RAM not included * 3. Panel Mount Kit (Optional)

Packing List

- Phoenix Power Connector
- Product CD with User's Manual (In PDF) and Drivers
- OMNI-2155-SKU

Optional Accessories

- **AP-0T9789LA1000**
LCD monitor Stand 230mm, LA-100
- **1702031802**
Power Cord (US Type)
- **1702031803**
Power Cord (European Type)
- **170203180E**
Power Cord (Japanese Type)
- **1255901202**
19V 120W Power Adapter w/ 3p phoenix block
- **9741215509**
Panel Mount Kit

OMNI Module (with AAEON Interface)

- **9741215501**
WiFi & SIM Card Module (Mini-Card WiFi Module is not Included)
- **9741215502**
Dual LAN Module
- **9741215503**
USB / COM / LAN Module
- **9741215504**
COM Port Module
- **9741215505**
Isolated COM Port module
- **9741215506**
DIO Module
- **9741215507**
CAN Bus Module
- **9741215508**
Audio Module
- **9741215510**
HMS Kit
- **9741215511**
COM x 4, DIO x16 Module

Wide Temperature DRAM

- **9761215500**
2GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215501**
4GB Wide Temperature DRAM (-40°C ~ 95°C)
 - **9761215502**
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- **Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

03 Accessories

Industrial Modular Touch Panel Solutions - Accessories

9741215501 - WiFi & SIM Card Module

Mini PCIe Slot x 2, for OMNI Panel PC only (wireless Mini-Card Module Excluded)



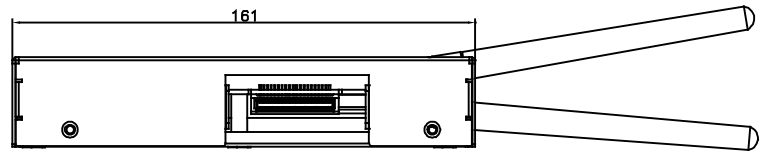
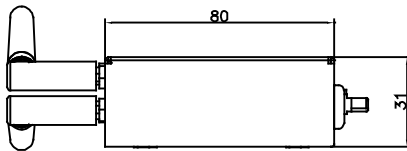
Features

- Full-size Mini-Card Slot x 2
- SIM Card Slot x 2

Ordering Information

- **9741215501**
WiFi & SIM Card Module (wireless Mini-Card Module Excluded)

Dimension Unit: mm



9741215502 - Dual LAN Module

Gigabit Ethernet x 2, for OMNI Panel PC only



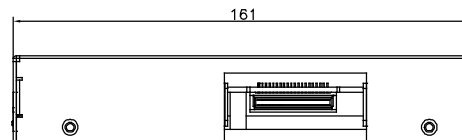
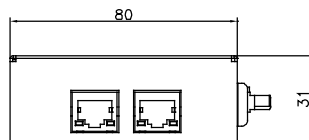
Features

- Gigabit Ethernet x 2
- Intel® i21 Chipset

Ordering Information

- **9741215502**
Dual LAN Module

Dimension Unit: mm



Accessories

9741215503 - USB/COM/LAN Module

USB 2.0 x 2, RS-232/422/485 x 2, Gigabit Ethernet x 1, for OMNI Panel PC only



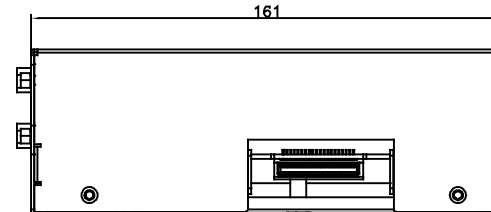
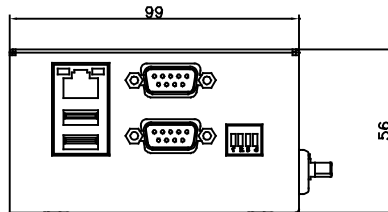
Features

- USB 2.0 x 2
- RS-232/422/485 x 2 (Selection by External Switch)
- Gigabit Ethernet x 1

Ordering Information

- 9741215503
USB/COM/LAN Module

Dimension Unit: mm



9741215504 - COM Module

RS-232/422/485 x 4, for OMNI Panel PC only



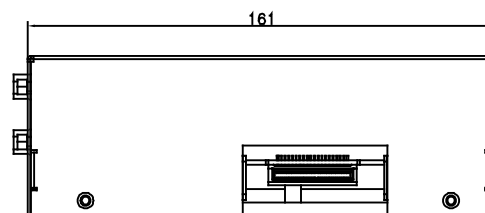
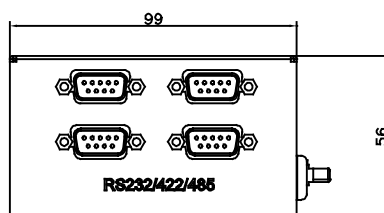
Features

- RS-232/422/485 x 4
- Selection by Jumpers

Ordering Information

- 9741215504
COM Module

Dimension Unit: mm



03 Accessories

Industrial Modular Touch Panel Solutions - Accessories

9741215505 - Isolated COM Module

Isolated RS-232/422/485 x 4, for OMNI Panel PC Only



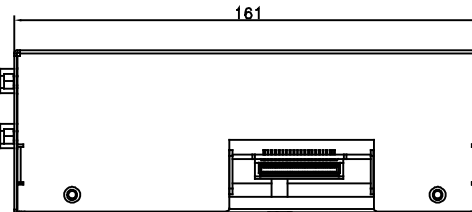
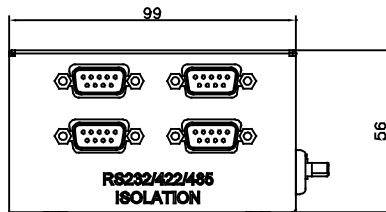
Features

- Isolated RS-232/422/485 x 4
- 2K Vdc Isolation
- Selection by Jumpers

Ordering Information

- 9741215505
Isolated COM Module

Dimension Unit: mm



9741215506 - DIO Module

DIO without Isolation x 8, for OMNI Panel PC only



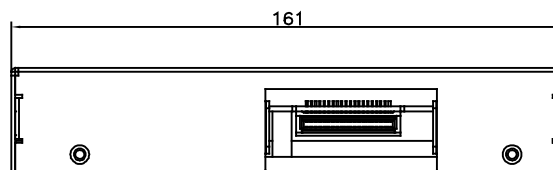
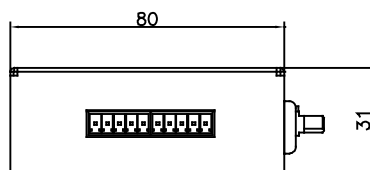
Features

- DIO x 8 (3.3 Vac)

Ordering Information

- 9741215506
DIO Module

Dimension Unit: mm



Accessories

9741215507 - CAN Bus Module

CAN Bus with Isolation, for OMNI Panel PC only



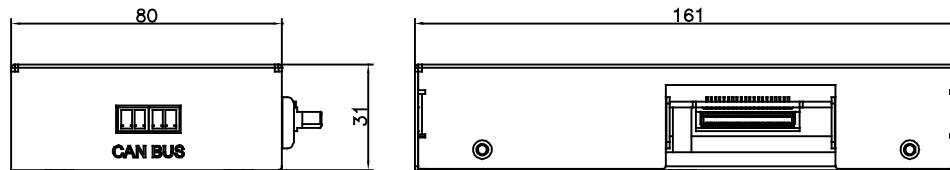
Features

- CAN Bus with Phoenix Connectors
- 2K Vdc Isolation
- Provide API and SDK for Windows® OS

Ordering Information

- 9741215507
CAN Bus Module

Dimension Unit: mm



9741215508 - Audio Module

MIC-In x 1, Line-out x 1, for OMNI Panel PC only



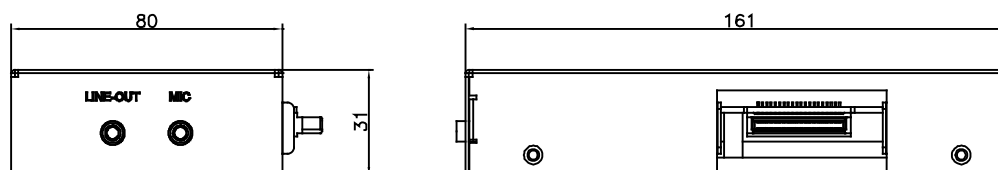
Features

- Mic in x 1
- Line out x 1

Ordering Information

- 9741215508
Audio Module

Dimension Unit: mm



03 Accessories

Industrial Modular Touch Panel Solutions - Accessories

9741215510 - HMS Kit

10/100 Ethernet x 2, for OMNI Panel PC Only



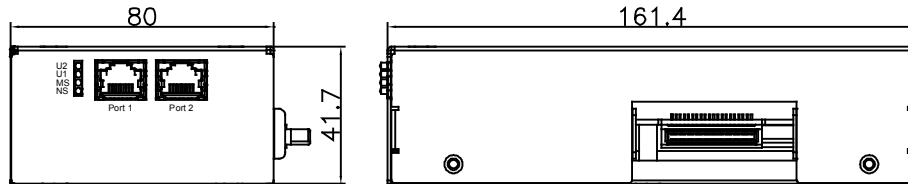
Features

- 10/100 Ethernet x 2
- Support All Major Industrial Ethernet and Fieldbus Networks

Ordering Information

- 9741215510
HMS Kit

Dimension Unit: mm



9741215511 - COM x 4, DIOx16 Module

RS-485/422/232 x 4, DIOx16 Module, for OMNI Panel PC only



Features

- Isolated RS-232/422/485 x 4
- Digital I/O x 8

Ordering Information

- 9741215511
COM x 4, DIOx16 Module

Dimension Unit: mm

