

OMNI Series Modules- CPU BOX/ Panels



Model	OMNI-BT CPU BOX	Model	OMNI-3105 PANEL KIT
System		System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® J1900 processor, 2 GHz	Processor	Supported by OMNI-BT CPU BOX Kit: Intel® J1900/N2807 Processor
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)	System Memory	Supported by OMNI-BT CPU BOX Kit: DDR3L 1333MHz SODIMM x 1, up to 8GB (J1900)/4GB(N2807)
LCD CRT Controller	Integrated in processor	LCD/CRT Controller	Supported by OMNI-BT CPU BOX Kit: Integrated in processor
Ethernet	Intel® I211, 10/100/1000Base-TX x 2 USB 2.0 type A x 3, USB 3.0 type A x 1, SMA Antenna hole x 1, HDMI x 1, CFast x 1, DB-9 Type RS-232/422/485 x 1, RJ-45 x 2 for 10/100/1000Base-TX, DB-15 x 1 for VGA, 3-pin terminal block x 1 for 9~30 Vdc power input, LED Power on/off switch x 1 (Power on = Orange, Power off =N/A)	Ethernet	Supported by OMNI-BT CPU BOX Kit: Intel® I211, 10/100/1000Base-TX x 2
IO Port		I/O Port	Supported by OMNI-BT CPU BOX Kit: USB 2.0 type A x 3, USB 3.0 type A x 1, SMA Antenna hole x 1, HDMI x 1, CFast x 1, DB-9 Type RS-232/422/485 x 1, RJ-45 x 2 for 10/100/1000 Base-TX, DB-15 x 1 for VGA, 3-pin terminal block x1 for 9~30 Vdc power input, LED Power on/off switch x1
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1	Storage Disk Drive	Supported by OMNI-BT CPU BOX Kit: CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Mini card x 2 (Testing Compatibility Only) SIM card x 2 PCIe X 1 connector (AAEON PIN Define)	Expansion Slot	Supported by OMNI-BT CPU BOX Kit: Mini card x 2 (Testing Compatibility Only), SIM card x 2, PCIe X 1 connector (AAEON PIN Define)
OS Support	Window® 7, Window® 8, Window® 10, Linux Kernel 2.6.x or above	Os Support	Supported by OMNI-BT CPU BOX Kit: Window® 7, Window® 8, Window® 10, Linux Kernel 2.6.x or above
Construction	Aluminum design IP65 Supported by OMNI Series Panel Kit.	Construction	Aluminum design (IP65 Front Frame)
Mounting	Wall/VESA Mount/Desktop (Optional panel mount kits)	Mounting	Supported by OMNI-BT CPU BOX Kit: Wall /VESA Mount/Desktop (Optional panel mount kits)
Dimension	183 x 162 x 28 mm	Dimension	280 x 239 x 31 mm
Gross Weight	1.8 kg	Gross Weight	2.1 kg
Operating Temperature	-10°C ~ 55°C (J1900) -10°C ~ 60°C (N2807) with 0.5 m/s airflow (CF & HDD)	Operating Temperature	Supported by OMNI-BT CPU BOX Kit: -10°C ~ 55°C (J1900), -10°C ~ 60°C (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)	Storage Temperature	Supported by OMNI-BT CPU BOX Kit: -4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C; non-condensing	Storage Humidity	Supported by OMNI-BT CPU BOX Kit: 90% @40°C; non-condensing
Anti Vibration	1 Grms/ 5~ 500Hz/ operation – with HDD	Anti-Vibration	Supported by OMNI-BT CPU BOX Kit: 1 Grms / 5~ 500Hz / operation – with HDD
Certification	CE/FCC class A	Certification	Supported by OMNI-BT CPU BOX Kit: CE/FCC class A
DC Input	DC 9(min) ~ 30 (max) V w/3-pin terminal block, ATX Power function	DC Input	Supported by OMNI-BT CPU BOX Kit: DC 9(min) ~ 30 (max) V w/3-pin terminal block, ATX Power function
Display Type	Supported by OMNI Series Panel Kit: TFT-LCD, LED	Display Type	10.4" TFT-LCD, LED
Max Resolution	Differentiated from OMNI series Panel Kit: Panel Size from 10.4" ~ 21.5"	Max. Resolution	800(H)x600(V)
Max Colors	Differentiated from OMNI series Panel Kit: Panel Size from 10.4" ~ 21.5"	Max. Colors	16.2M colors
Luminance	Differentiated from OMNI series Panel Kit: Panel Size from 10.4" ~ 21.5"	Luminance	230 cd/m²
Viewing Angle	Differentiated from OMNI series Panel Kit: Panel Size from 10.4" ~ 21.5"	Viewing Angle	120 (H), 100 (V)
Back Light	Supported by OMNI series Panel Kit: LED	Back Light	LED
Type	Supported by OMNI series Panel Kit: P-CAP/ 5-wire resistive	Back Light MTBF (Hours)	—
Light Transmission	Differentiated from OMNI series Panel Kit: Panel Size from 10.4" ~ 21.5"	Type	P-CAP/ 5-wire resistive
Note		Light Transmission	P-CAP (90% ± 3%) 5-wire Resistive (80% ± 3%)
		Note	

System Level Products

OMNI Series Modules- Panels

OMNI Series Modules - Panels



Part Number	OMNI-3125 PANEL KIT	OMNI-3155 PANEL KIT
System		
Processor	Supported by OMNI-BT CPU BOX Kit: Intel® J1900/N2807 Processor	Supported by OMNI-BT CPU BOX Kit: Intel® J1900/N2807 Processor
System Memory	Supported by OMNI-BT CPU BOX Kit: DDR3L 1333MHz SODIMM x 1, up to 8GB(J1900)/4GB(N2807)	Supported by OMNI-BT CPU BOX Kit: DDR3L 1333MHz SODIMM x 1, up to 8GB(J1900)/4GB(N2807)
LCD/CRT Controller	Supported by OMNI-BT CPU BOX Kit: Integrated in processor	Supported by OMNI-BT CPU BOX Kit: Integrated in processor
Ethernet	Supported by OMNI-BT CPU BOX Kit: Intel® I211, 10/100/1000Base-TX x 2	Supported by OMNI-BT CPU BOX Kit: Intel® I211, 10/100/1000Base-TX x 2
I/O Port	Supported by OMNI-BT CPU BOX Kit: USB 2.0 type A x 3, USB 3.0 type A x 1 SMA Antenna hole x 1, HDMI x 1, CFast x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000 Base-TX, DB-15 x 1 for VGA 3-pin terminal block x1 for 9-30 Vdc power input LED Power on/off switch x1	Supported by OMNI-BT CPU BOX Kit: USB 2.0 type A x 3, USB 3.0 type A x 1 SMA Antenna hole x 1, HDMI x 1, CFast x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000 Base-TX, DB-15 x 1 for VGA 3-pin terminal block x1 for 9-30 Vdc power input LED Power on/off switch x1
Storage Disk Drive	Supported by OMNI-BT CPU BOX Kit: CFast™ x 1, 2.5" SATA HDD bay x 1	Supported by OMNI-BT CPU BOX Kit: CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Supported by OMNI-BT CPU BOX Kit: Mini card x 2 (Testing Compatibility Only), SIM card x 2 PCIEX 1 connector (AAEON PIN Define)	Supported by OMNI-BT CPU BOX Kit: Mini card x 2 (Testing Compatibility Only), SIM card x 2 PCIEX 1 connector (AAEON PIN Define)
Os Support	Supported by OMNI-BT CPU BOX Kit: Window® 7, Window® 8 Window® 10, Linux Kernal 2.6.x or above	Supported by OMNI-BT CPU BOX Kit: Window® 7, Window® 8, Window® 10, Linux Kernal 2.6.x or above
Construction	Aluminum design (IP65 Front Frame)	Aluminum design (IP65 Front Frame)
Mounting	Supported by OMNI-BT CPU BOX Kit: Wall /VESA Mount/Desktop (Optional panel mount kits)	Supported by OMNI-BT CPU BOX Kit: Wall /VESA Mount/Desktop (Optional panel mount kits)
Dimension	329*288*25 mm	369*314*27 mm
Gross Weight	3.5 kg	4.85 kg
Operating Temperature	Supported by OMNI-BT CPU BOX Kit: -10°C ~ 55°C (J1900) -10°C ~ 60°C (N2807) with 0.5 m/s airflow (CF & HDD)	Supported by OMNI-BT CPU BOX Kit: -10°C ~ 55°C (J1900) -10°C ~ 60°C (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	Supported by OMNI-BT CPU BOX Kit: -4°F ~ 158°F (-20°C ~ 70°C)	Supported by OMNI-BT CPU BOX Kit: -4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	Supported by OMNI-BT CPU BOX Kit: 90% @40°C; non-condensing	Supported by OMNI-BT CPU BOX Kit: 90% @40°C; non-condensing
Anti-Vibration	Supported by OMNI-BT CPU BOX Kit: 1 Grms / 5~ 500Hz / operation – with HDD	Supported by OMNI-BT CPU BOX Kit: 1 Grms / 5~ 500Hz / operation – with HDD
Certification	Supported by OMNI-BT CPU BOX Kit: CE/FCC class A	Supported by OMNI-BT CPU BOX Kit: CE/FCC class A
DC Input	Supported by OMNI-BT CPU BOX Kit: DC 9(min) ~ 30 (max) V w/3-pin terminal block, ATX Power function	Supported by OMNI-BT CPU BOX Kit: DC 9(min) ~ 30 (max) V w/3-pin terminal block, ATX Power function
Display Type	12.1" TFT-LCD, LED	15" TFT-LCD, LED
Max. Resolution	1024(H)x768(V)	1024(H)x768(V)
Max. Colors	16.2M colors	16.7M (8 bit/color)
Luminance	500 cd/m ²	450 cd/m ²
Viewing Angle	160 (H), 160 (V)	160 (H), 140 (V)
Back Light	LED	LED
Back Light MTBF (Hours)	—	—
Type	P-CAP/ 5-wire resistive	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)	P-CAP (≥85%), 5-wire Resistive (80% ± 2%)
Note		

OMNI Series Modules- Panels



Part Number	OMNI-3175 PANEL KIT	OMNI-3195 PANEL KIT
System		
Processor	Supported by OMNI-BT CPU BOX Kit: Intel® J1900/N2807 Processor	Supported by OMNI-BT CPU BOX Kit: Intel® J1900/N2807 Processor
System Memory	Supported by OMNI-BT CPU BOX Kit: DDR3L 1333MHz SODIMM x 1, up to 8GB(J1900)/4GB(N2807)	Supported by OMNI-BT CPU BOX Kit: DDR3L 1333MHz SODIMM x 1, up to 8GB(J1900)/4GB(N2807)
LCD/CRT Controller	Supported by OMNI-BT CPU BOX Kit: Integrated in processor	Supported by OMNI-BT CPU BOX Kit: Integrated in processor
Ethernet	Supported by OMNI-BT CPU BOX Kit: Intel® I211, 10/100/1000Base-TX x 2	Supported by OMNI-BT CPU BOX Kit: Intel® I211, 10/100/1000Base-TX x 2
I/O Port	Supported by OMNI-BT CPU BOX Kit: USB 2.0 type A x 3, USB 3.0 type A x 1 SMA Antenna hole x 1, HDMI x 1, CFast x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000 base-TX, DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1	Supported by OMNI-BT CPU BOX Kit: USB 2.0 type A x 3, USB 3.0 type A x 1 SMA Antenna hole x 1, HDMI x 1, CFast x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000 base-TX, DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1
Storage Disk Drive	Supported by OMNI-BT CPU BOX Kit: CFast™ x 1, 2.5" SATA HDD bay x 1	Supported by OMNI-BT CPU BOX Kit: CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Supported by OMNI-BT CPU BOX Kit: Mini card x 2 (Testing Compatibility Only), SIM card x 2 PCIEX 1 connector (AAEON PIN Define)	Supported by OMNI-BT CPU BOX Kit: Mini card x 2 (Testing Compatibility Only), SIM card x 2 PCIEX 1 connector (AAEON PIN Define)
Os Support	Supported by OMNI-BT CPU BOX Kit: Window® 7, Window® 8, Window® 10 Linux Kernal 2.6.x or above	Supported by OMNI-BT CPU BOX Kit: Window® 7, Window® 8, Window® 10 Linux Kernal 2.6.x or above
Construction	Aluminum design (IP65 Front Frame)	Aluminum design (IP65 Front Frame)
Mounting	Supported by OMNI-BT CPU BOX Kit: Wall /VESA Mount/Desktop (Optional panel mount kits)	Supported by OMNI-BT CPU BOX Kit: Wall /VESA Mount/Desktop (Optional panel mount kits)
Dimension	400*370*28 mm	460.8*410*31 mm
Gross Weight	5.7 kg	7.3 kg
Operating Temperature	Supported by OMNI-BT CPU BOX Kit: -10°C ~ 55°C (J1900) -10°C ~ 60°C (N2807) with 0.5 m/s airflow (CF & HDD)	Supported by OMNI-BT CPU BOX Kit: -10°C ~ 55°C (J1900) -10°C ~ 60°C (N2807) with 0.5 m/s airflow (CF & HDD)
Storage Temperature	Supported by OMNI-BT CPU BOX Kit: -4°F ~ 158°F (-20°C ~ 70°C)	Supported by OMNI-BT CPU BOX Kit: -4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	Supported by OMNI-BT CPU BOX Kit: 90% @40°C; non-condensing	Supported by OMNI-BT CPU BOX Kit: 90% @40°C; non-condensing
Anti-Vibration	Supported by OMNI-BT CPU BOX Kit: 1 Grms / 5~ 500Hz / operation – with HDD	Supported by OMNI-BT CPU BOX Kit: 1 Grms / 5~ 500Hz / operation – with HDD
Certification	Supported by OMNI-BT CPU BOX Kit: CE/FCC class A	Supported by OMNI-BT CPU BOX Kit: CE/FCC class A
DC Input	Supported by OMNI-BT CPU BOX Kit: DC 9(min) ~ 30 (max) V w/3-pin terminal block, ATX Power function	Supported by OMNI-BT CPU BOX Kit: DC 9(min) ~ 30 (max) V w/3-pin terminal block, ATX Power function
Display Type	17" TFT-LCD, LED	19" TFT-LCD, LED
Max. Resolution	1280(H)x1024(V)	1280(H)x1024(V)
Max. Colors	16.7M colors (RGB 6-bits + Hi-FRC data)	16.7M colors
Luminance	350 cd/m ²	350 cd/m ²
Viewing Angle	170 (H), 160 (V)	170 (H), 160 (V)
Back Light	LED	LED
Back Light MTBF (Hours)	—	—
Type	P-CAP/ 5-wire resistive	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (≥85%) 5-wire Resistive (80% ± 5%)	P-CAP (≥85%) 5-wire Resistive (80% ± 5%)
Note		

System Level Products

OMNI Series Modules- Panels

OMNI Series Modules - Panels/ Infotainment Multi-Touch Panel Solutions



Part Number	OMNI-2155 PANEL KIT	OMNI-2215 PANEL KIT
System		
Processor	Supported by OMNI-BT CPU BOX Kit: Intel® J1900/N2807 Processor	Supported by OMNI-BT CPU BOX Kit: Intel® J1900/N2807 Processor
System Memory	Supported by OMNI-BT CPU BOX Kit: DDR3L 1333MHz SODIMM x 1, up to 8GB(J1900)/4GB(N2807)	Supported by OMNI-BT CPU BOX Kit: DDR3L 1333MHz SODIMM x 1, up to 8GB(J1900)/4GB(N2807)
LCD/CRT Controller	Supported by OMNI-BT CPU BOX Kit: Integrated in processor	Supported by OMNI-BT CPU BOX Kit: Integrated in processor
Ethernet	Supported by OMNI-BT CPU BOX Kit: Intel® I211, 10/100/1000Base-TX x 2	Supported by OMNI-BT CPU BOX Kit: Intel® I211, 10/100/1000Base-TX x 2
I/O Port	Supported by OMNI-BT CPU BOX Kit: USB 2.0 type A x 3, USB 3.0 type A x 1 SMA Antenna hole x 1, HDMI x 1, CFast x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000 base-TX, DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 Vdc power input LED Power on/off switch x 1	Supported by OMNI-BT CPU BOX Kit: USB 2.0 type A x 3, USB 3.0 type A x 1 SMA Antenna hole x 1, HDMI x 1, CFast x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000 base-TX, DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 Vdc power input LED Power on/off switch x 1
Storage Disk Drive	Supported by OMNI-BT CPU BOX Kit: CFast™ x 1, 2.5" SATA HDD bay x 1	Supported by OMNI-BT CPU BOX Kit: CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Supported by OMNI-BT CPU BOX Kit: Mini card x 2 (Testing Compatibility Only), SIM card x 2 PCIe X 1 connector (AAEON PIN Define)	Supported by OMNI-BT CPU BOX Kit: Mini card x 2 (Testing Compatibility Only), SIM card x 2 PCIe X 1 connector (AAEON PIN Define)
Os Support	Supported by OMNI-BT CPU BOX Kit: Window® 7, Window® 8, Window® 10 Linux Kernal 2.6.x or above	Supported by OMNI-BT CPU BOX Kit: Window® 7, Window® 8, Window® 10 Linux Kernal 2.6.x or above
Construction	Aluminum design (IP65 Front Frame)	Aluminum design (IP65 Front Frame)
Mounting	Supported by OMNI-BT CPU BOX Kit: Wall /VESA Mount/Desktop (Optional panel mount kits)	Supported by OMNI-BT CPU BOX Kit: Wall /VESA Mount/Desktop (Optional panel mount kits)
Dimension	420*265*29 mm	550*373*22 mm
Gross Weight	5.15 kg	7.4 kg
Operating Temperature	Supported by OMNI-BT CPU BOX Kit: -10°C ~ 55°C (J1900) -10°C ~ 60°C (N2807), with 0.5 m/s airflow (CF & HDD)	Supported by OMNI-BT CPU BOX Kit: -10°C ~ 55°C (J1900) -10°C ~ 60°C (N2807), with 0.5 m/s airflow (CF & HDD)
Storage Temperature	Supported by OMNI-BT CPU BOX Kit: -4°F ~ 158°F (-20°C ~ 70°C)	Supported by OMNI-BT CPU BOX Kit: -4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	Supported by OMNI-BT CPU BOX Kit: 90% @40°C; non-condensing	Supported by OMNI-BT CPU BOX Kit: 90% @40°C; non-condensing
Anti-Vibration	Supported by OMNI-BT CPU BOX Kit: 1 Grms / 5~ 500Hz / operation – with HDD	Supported by OMNI-BT CPU BOX Kit: 1 Grms / 5~ 500Hz / operation – with HDD
Certification	Supported by OMNI-BT CPU BOX Kit: CE/FCC class A	Supported by OMNI-BT CPU BOX Kit: CE/FCC class A
DC Input	Supported by OMNI-BT CPU BOX Kit: DC 9(min) ~ 30 (max) V w/3-pin terminal block, ATX Power function	Supported by OMNI-BT CPU BOX Kit: DC 9(min) ~ 30 (max) V w/3-pin terminal block, ATX Power function
Display Type	15.6" TFT-LCD, LED	21.5" TFT-LCD, LED
Max. Resolution	1366(H)x768(V)	1920(H)x1080(V)
Max. Colors	16.7M colors	16.7M colors
Luminance	400 cd/m ²	250 cd/m ²
Viewing Angle	160 (H), 140 (V)	178 (H), 178 (V)
Back Light	LED	LED
Back Light MTBF (Hours)	—	—
Type	P-CAP/ 5-wire resistive	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%) 5-wire Resistive (80% ± 2%)	P-CAP (≥85%) 5-wire Resistive (80% ± 5%)
Note		