

Industrial Automation System



Model Name	TANK-860-HM86	TANK-801-BT	TANK-820-H61	TANK-800-D525	
Chassis	Color	Black C + Silver	Black C + Silver	Black C + Silver	
	Dimensions (WxDxH) (mm)	2-slot: 121.5 x 255.2 x 205 4-slot: 154.8 x 255.2 x 205 6-slot: 195.4 x 255.2 x 205	136 x 219 x 188	133 x 269 x 208	136 x 219 x 188
	System Fan	Fanless	Fanless	Fanless	Fanless
	Chassis Construction	Extruded aluminum alloys	Extruded aluminum alloys	Extruded aluminum alloys	Extruded aluminum alloys
Motherboard	CPU	Intel® Core™ i5-4400E 2.7 GHz Intel® Celeron® 2000E 2.2 GHz	Intel® Celeron® J1900 2 GHz	Intel® Core™ i5-2xxT (above 2.7 GHz) Intel® Core™ i3-2xxT (above 2.5 GHz) Intel® Pentium® G6xxT (above 2.2 GHz)	Intel® Atom™ D525 1.8 GHz
	Chipset	Intel® HM86	SoC	Intel® H61	Intel® ICH8M
	System Memory	Two 204-pin DDR3 SO-DIMM slots. Pre-installed one 4GB SO-DIMM (system max: 16 GB)	One 204-pin DDR3L 1.35V SO-DIMM 2 GB pre-installed (system max: 8G)	On-board DDR3 2 GB memory 1 x 204-pin DDR3 SO-DIMM (system max: 10 GB)	On-board DDR3 1 GB memory 1 x 204-pin DDR3 SDRAM SO-DIMM (system max: 3 GB)
IPMI	iRIS Solution	1 x iRIS-2400	1 x iRIS-2400	N/A	N/A
Storage	Hard Drive	2 x 2.5" SATA 6Gb/s HDD/SSD bay	1 x 2.5" SATA 3Gb/s HDD/SSD bay	1 x 2.5" SATA 3Gb/s HDD/SSD bay	1 x 2.5" SATA 3Gb/s HDD/SSD bay
	CF Card/CFast	1 x CFast	1 x CFast	1 x CF Type II	1 x CF Type II
	mSATA	1 x mSATA (SATA 3Gb/s signal)	N/A	N/A	N/A
I/O Interfaces	USB 3.0	4	2	2	N/A
	USB 2.0	2	2	4	4
	Ethernet	2 x RJ-45 1 x PCIe GbE by Intel® I210 1 x PCIe GbE by Intel® I217LM	2 x RJ-45 1 x PCIe GbE by Intel® I210 1 x PCIe GbE by Intel® I211	2 x RJ-45 PCIe GbE by Realtek 8111E	2 x RJ-45 PCIe GbE by Realtek 8111E
	COM Port	4 x RS-232 (DB-9, two with isolation) 2 x RS-422/485 (RJ-45)	2 x RS-232 (DB-9) 2 x RS-232/422/485 (DB-9, with isolation)	4 x RS-232 (DB-9, two with isolation) 2 x RS-422/485 (RJ-45)	4 x RS-232 (DB-9) 2 x RS-422/485 (RJ-45)
	Digital I/O	8-bit digital I/O, 4-bit input/4-bit output	16-bit digital I/O, 8-bit input/8-bit output	8-bit digital I/O, 4-bit input/4-bit output	8-bit digital I/O, 4-bit input/4-bit output
	CAN-bus	N/A	N/A	N/A	N/A
	Display	1 x VGA, 1 x DVI-I, 1 x DisplayPort	1 x DisplayPort, 1 x DVI-I	1 x VGA, 1 x DVI-I	1 x VGA
	Resolution	VGA: Up to 1920 x 1200@60Hz DVI-I: Up to 2500 x 1600@60Hz Displayport: Up to 2500 x 1600@60Hz	DisplayPort: Up to 2560 x 1600 MHz DVI-I: Up to 2560 x 1600 MHz	VGA: Up to 2048 x 1536@75Hz DVI-I: Up to 1920 x 1080@60Hz	VGA: Up to 2048 x 1536@75Hz
	Audio	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in
	Wireless	1 x 802.11b/g/n	1 x 802.11b/g/n	N/A	N/A
Expansions	PCI	2A: Two PCIe x8 (physical PCIe x16 slot) 4A: Two PCIe x8 (physical PCIe x16 slot) + 2 x PCI 6A: One PCIe x8 (physical PCIe x16 slot) + two PCIe x4 + three PCI	3A: One PCIe x1 + Two x PCI 3B: Two PCIe x1 + One x PCI 3C: Three x PCI	2P1E: Two PCI, One PCIe x8 (physical PCIe x16 slot) 1P2E: One PCI, One PCIe x1 (physical x4 slot), One PCIe x8 (physical x16 slot)	2P1E: Two PCI, One PCIe x4 (physical PCIe x16 slot) 1P2E: One PCI, One PCIe x1 (physical x4 slot), One PCIe x2 (physical x16 slot)
	PCIe Mini	2A: 1 x Full-size (co-lay mSATA) 4A: 1 x Full-size (co-lay mSATA) + 1 x Full-size (on backplane) 6A: 1 x Full-size (co-lay mSATA) + 1 x Full-size (on backplane)	1 x Full size	N/A	N/A
	Power	Power Input	DC Jack: 9 V~36 V DC	DC Jack: 9 V~24 V DC Terminal Block: 9 V~36 V DC	DC Jack: 10.5 V~36 V DC Terminal Block: 9 V~36 V DC
Reliability	Power Consumption	19 V@3.34 A (Intel® Core™ i5-4400E with 4 GB memory)	19 V@1.8 A (Intel® Celeron® J1900 with 2 GB DDR3 memory)	19 V@3.5 A (Intel® Core™ i3-2100 with 6 GB DDR3 memory) w/o add-on card	19 V@1.73 A (Intel® Atom™ D525 with 1 GB DDR3 Memory)
	Mounting	Wall mount	Wall mount	Wall mount	Wall mount
	Operating Temperature	-20°C ~ 60°C with air flow (SSD), 5% ~ 95%, non-condensing	-20°C ~ 60°C with air flow (SSD), 5% ~ 95%, non-condensing	-20°C ~ 60°C with air flow (SSD), 5% ~ 95%, non-condensing	-20°C ~ 70°C with air flow (SSD), 5% ~ 95%, non-condensing
	Operating Shock	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis
	Operating Vibration	MIL-STD-810F 514.5C-2 (with SSD)	MIL-STD-810F 514.5C-2 (with SSD)	MIL-STD-810F 514.5C-2 (with SSD)	MIL-STD-810F 514.5C-2 (with SSD)
	Weight (Net/Gross)	2-slot: 4.2 kg/6.3 kg 4-slot: 4.5 kg/6.5 kg 6-slot: 4.8 kg/6.9 kg	2.8 kg/4.3 kg	4.2 kg/6.3 kg	2.6 kg/4.1 kg
Safety/EMC	CE/FCC	CE/FCC	CE/FCC	CE/FCC	
OS	Supported OS	Microsoft® Windows® 8 Embedded, Microsoft® WES7E	Microsoft® Windows® 8 Embedded, Microsoft® WES7E	Microsoft® WES7E, Microsoft® Windows® XP Embedded	Microsoft® WES7E, Microsoft® Windows® XP Embedded

*Notes : Power adapter supports 0°C ~ 40°C

- 1 IEIMobile Solutions
- 2 Automation Panel Solutions
- 3 Healthcare Panel PC Solution
- 4 Industrial System
- 5 O'Ring Network Communication
- 6 Automation Control
- 7 Optional Peripherals

Industrial Automation System



Model Name		TANK-760-HM86	TANK-720-Q67	TANK-700-QM67	TANK-610-BW
Chassis	Color	Black C + Silver	Blue C + Silver	Black C + Silver	Black C + Silver
	Dimensions (WxDxH) (mm)	310 x 200 x 62	310 x 200 x 70	310 x 200 x 62	184 x 200.6 x 58.2
	System Fan	Fanless	Fanless	Fanless	Fanless
	Chassis Construction	Extruded aluminum alloys	Extruded aluminum alloys	Extruded aluminum alloys	Extruded Aluminum alloy
Motherboard	CPU	Intel® Core™ i7-4700EQ 2.4 GHz Intel® Core™ i5-4400E 2.7 GHz Intel® Celeron® 2000E 2.2 GHz	Intel® Core™ i5-2xxT (above 2.7 GHz) Intel® Core™ i3-2xxT (above 2.5 GHz) Intel® Pentium® G6xxT (above 2.2 GHz)	Intel® Core™ i5-2xxE (above 2.5 GHz) Intel® Core™ i3-2xxE (above 2.2 GHz) Intel® Celeron® B8xx (above 1.6 GHz)	Intel® Celeron® N3160 processor (up to 2.24GHz, quad-core, 2MB cache, TDP=6W)
	Chipset	Intel® HM86	Intel® Q67	Intel® QM67	SoC
	System Memory	2 x 204-pin DDR3 SO-DIMM slot. Pre-installed one x 4GB SO-DIMM (system max: 16 GB)	On-board DDR3 2 GB memory 1 x 204-pin DDR3 SO-DIMM (system max: 10 GB)	On-board DDR3 2 GB memory 1 x 204-pin DDR3 SO-DIMM (system max: 10 GB)	2 x 204-pin DDR3L 1.35V SDRAM SO-DIMM (System Max : 8GB)
IPMI	iRIS Solution	1 x iRIS-2400	N/A	N/A	N/A
Storage	Hard Drive	2 x 2.5" SATA 6Gb/s HDD/SSD bay	1 x SATA 3Gb/s with 2.5" HDD/SSD support 1 x SATA 6Gb/s with 2.5" HDD/SSD support	2 x 2.5" SATA 3Gb/s HDD/SSD bay	1 x 2.5" SATA 6Gb/s HDD/SSD bay
	CF Card/CFast	1 x CFast	N/A	N/A	N/A
	mSATA	1 x mSATA (SATA 3Gb/s signal)	1 x mSATA (SATA 3Gb/s signal)	1 x mSATA (SATA 3Gb/s signal)	1 x mSATA (SATA2 signal)
I/O Interfaces	USB 3.0	4	2	2	4
	USB 2.0	2	4	4	N/A
	Ethernet	2 x RJ-45 1 x PCIe GbE by Intel® I210 1 x PCIe GbE by Intel® I217LM	2 x Combo (SFP Fiber/RJ-45) 1 x PCIe GbE by Intel® 82579 1 x PCIe GbE by Intel® 82583V	2 x Combo (SFP Fiber/RJ-45) 1 x PCIe GbE by Intel® 82579 1 x PCIe GbE by Intel® 82583V	2 x RJ-45 PCIe GbE by Intel I210-IT
	Fiber	N/A	2 x Combo (SFP Fiber/RJ-45)	2 x Combo (SFP Fiber/RJ-45)	N/A
	COM Port	4 x RS-232 (DB-9, with isolation) 2 x RS-232/422/485 (DB-9, with isolation)	4 x RS-232 (DB-9) 2 x RS-232 (RJ-45, with isolation) 2 x RS-422/485 (RJ-45, with isolation)	4 x RS-232 (DB-9) 2 x RS-232 (RJ-45, with isolation) 2 x RS-422/485 (RJ-45, with isolation)	6 x RS-232 2 x RS-232/422/485
	Digital I/O	8-bit digital I/O, 4-bit input/4-bit output	8-bit digital I/O, 4-bit input/4-bit output	8-bit digital I/O, 4-bit input/4-bit output	N/A
	CAN-bus	2 x Phoenix terminal block with isolation	1 x Phoenix terminal block	1 x Phoenix terminal block	N/A
	Display	1 x VGA, 1 x HDMI, 1 x DisplayPort	1 x VGA, 1 x HDMI	1 x VGA, 1 x HDMI	1 x VGA, 1 x HDMI
	Resolution	VGA: Up to 1920 x 1200@60Hz HDMI: Up to 2500 x 1600@60Hz DisplayPort: Up to 2500 x 1600@60Hz	VGA: Up to 2048 x 1536@75Hz HDMI: Up to 1920 x 1200@60Hz	VGA: Up to 2048 x 1536@75Hz HDMI: Up to 1920 x 1200@60Hz	VGA: Up to 2560 x 1600 HDMI: Up to 3840 x 2160
	Audio	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in
	Wireless	1 x 802.11b/g/n	1 x 802.11a/b/g/n 3T3R	1 x 802.11a/b/g/n 3T3R	1 x 802.11 b/g/n
Other	Reserved IO window for PCIE Mini card expansion	Optional 4-channel audio/video input PCIe Mini card	Optional 4-channel audio/video input PCIe Mini card	N/A	
Expansions	PCI	N/A	N/A	N/A	N/A
	PCIe	N/A	N/A	N/A	N/A
	PCIe Mini	3 x Full Size (co-lay mSATA)	3 x Full Size (co-lay mSATA)	3 x Full Size (co-lay mSATA)	1 x Full Size (support mSATA, co-lay SATA) 1 x Half size
Power	Power Input	DC Jack: 9 V~36 V DC Terminal Block: 9 V~36 V DC	DC Jack: 10.5 V~36 V DC Terminal Block: 9 V~36 V DC	DC Jack: 10.5 V~36 V DC Terminal Block: 9 V~36 V DC	DC Jack: 9 V~36 V DC
	Power Consumption	19 V@3.2 A (Intel® Core™ i5 i5-4400E with 4 GB memory)	19 V@3.1 A (Intel® Core™ i3-2100T with 4 GB DDR3 Memory)	19 V@3.3 A (Intel® Core™ i5-2540M with 4 GB DDR3 Memory)	12 V@1.49 A (Intel® Celeron N3160 with 4 GB DDR3L memory)
Reliability	Mounting	Wall mount	Wall mount	Wall mount	Wall mount, VESA 100
	Operating Temperature	-20°C ~ 70°C with air flow (SSD) for i5-4400E & 2000E -20°C ~ 50°C with air flow (SSD) for i7-4700EQ	-20°C ~ 50°C with air flow (SSD), 5% ~ 95%, non-condensing	-20°C ~ 70°C with air flow (SSD), 5% ~ 95%, non-condensing	-40°C ~ 60°C with air flow (SSD), 10% ~ 95%, non-condensing
	Operating Shock	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 100 shocks per axis
	Operating Vibration	MIL-STD-810F 514.5C-2 (with SSD)	MIL-STD-810F 514.5C-2 (with SSD)	MIL-STD-810F 514.5C-2 (with SSD)	MIL-STD-810G 514.6C-1 (with SSD)
	Weight (Net/Gross)	4.2 kg/6.9 kg	4.2 kg/6.9 kg	3.8 kg/6.5 kg	2.2Kg/3Kg
	Safety/EMC	CE/FCC	CE/FCC	CE/FCC	CE/FCC
OS	Supported OS	Microsoft® Windows® 8 Embedded, Microsoft® WES7E	Microsoft® WES7E, Microsoft® Windows® XP Embedded	Microsoft® WES7E, Microsoft® Windows® XP Embedded	Microsoft® Windows 8 Embedded, Microsoft® WES7E

*Notes : Power adapter supports 0°C ~ 40°C

- 1 IEMobile Solutions
- 2 Automation Panel Solutions
- 3 Healthcare Panel PC Solution
- 4 Industrial System
- 5 ORing Network Communication
- 6 Automation Control
- 7 Optional Peripherals

Industrial Automation System



-20°C ~ +70°C

New

Model Name		TANK-600-D2550	TANK-600-N2600	TANK-101B	TANK-6000-C226
Chassis	Color	Black C + Silver	Black C + Silver	Cool Gray + Blue	Black
	Dimensions (WxDxH) (mm)	193.4 x 200 x 57	193.4 x 200 x 57	248 x 138 x 44	310 x 199.5 x 112
	System Fan	Fanless	Fanless	Fanless	92 mm x 92 mm x 25 mm
	Chassis Construction	Aluminum alloys	Aluminum alloys	Aluminum alloys with heavy duty metal	Extruded aluminum alloys
Motherboard	CPU	Intel® Atom™ D2550 1.86 GHz	Intel® Atom™ N2600 1.6 GHz	Intel® Atom™ D525 1.8 GHz Intel® Atom™ N455 1.66 GHz	Intel® Xeon® E3 1225-v3 3.2 GHz Intel® Core™ i3 4330 3.5 GHz
	Chipset	Intel® NM10	Intel® NM10	Intel® ICH8M	Intel® C226
	System Memory	On-board DDR3 4 GB	On-board DDR3 2 GB	On-board DDR3 1 GB memory 1 x 204-pin DDR3 SDRAM SO-DIMM (system max: 3 GB)	4 x 240-pin DDR3 U-DIMM Pre-installed 4 GB DDR3 memory (system max: 32 GB)
IPMI	iRIS Solution	N/A	N/A	N/A	1 x iRIS-2400 on board
Storage	Hard Drive	1 x 2.5" SATA 3Gb/s HDD/SSD bay	1 x 2.5" SATA 3Gb/s HDD/SSD bay	1 x 2.5" SATA 3Gb/s HDD/SSD bay	3 x 2.5" SATA 6Gb/s HDD/SSD drive bay
	CF Card/CFast	N/A	N/A	1 x CF Type II	N/A
	mSATA	1 x mSATA (SATA 3Gb/s signal)	1 x mSATA (SATA 3Gb/s signal)	N/A	N/A
I/O Interfaces	USB 3.0	N/A	N/A	N/A	4
	USB 2.0	6	6	4	2
	Ethernet	2 x RJ-45 PCIe GbE by Realtek 8111E	2 x RJ-45 PCIe GbE by Realtek 8111E	2 x RJ-45 PCIe GbE by Realtek 8111E	4 x RJ-45 1 x PCIe GbE by Intel® i217 PHY 3 x PCIe by GbE Intel® i210
	Fiber	N/A	N/A	N/A	2 x Combo (SFP Fiber/RJ-45), combo with LAN 1/LAN 2
	COM Port	6 x RS-232 (DB-9) 2 x RS-232/422/485 (DB-9)	6 x RS-232 (DB-9) 2 x RS-232/422/485 (DB-9)	3 x RS-232 (DB-9) 1 x RS-422/485 (DB-9, Default RS-422 with isolation)	2 x RS-232 (DB-9)
	Digital I/O	N/A	N/A	N/A	N/A
	CAN-bus	N/A	N/A	2 x DB-9 CAN with isolation	N/A
	Display	1 x VGA	1 x VGA	1 x VGA	1 x HDMI, 1 x VGA
	Resolution	VGA: Up to 2048 x 1536@75Hz	VGA: Up to 2048 x 1536@75Hz	VGA: Up to 2048 x 1536@60Hz	HDMI: Up to 1920 x 1200@60Hz VGA: Up to 1920 x 1200@60Hz
	Audio	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in
	Wireless	N/A	N/A	1 x 802.11b/g/n	N/A
Other	N/A	N/A	N/A	N/A	
Expansions	PCI	N/A	N/A	N/A	N/A
	PCIe	N/A	N/A	N/A	2 x PCIe x8 (Gen 3)
	PCIe Mini	1 x Full Size (co-lay mSATA) 1 x Half size	1 x Full Size (co-lay mSATA) 1 x Half size	1 x Full size	N/A
Power	Power Input	DC Jack: 9 V~36 V DC	DC Jack: 9 V~36 V DC	DC Jack: 9 V~36 V DC	DC Jack: 19 V/24 V DC
	Power Consumption	12 V@2.2 A (Intel® Atom™ D2550 with 4 GB DDR3 memory)	12 V@2 A (Intel® Atom™ N2600 with 2 GB DDR3 memory)	12 V@1.85 A (Intel® Atom™ D525 with 1 GB DDR3 memory)	19 V@4.8 A (Intel® Xeon® E3-1225 v3 with 8 GB memory)
Reliability	Mounting	VESA 100, DIN-Rail	VESA 100, DIN-Rail	Din-rail, wall mount -20°C~60°C	Wall mount -20°C~55°C with air flow (SSD), 5% ~ 95%, non-condensing
	Operating Temperature/Humidity	-20°C ~ 70°C with air flow (SSD), 5% ~ 95%, non-condensing	-20°C ~ 70°C with air flow (SSD), 5% ~ 95%, non-condensing	(D525 with air flow CF/SSD), 5% ~ 95%, non-condensing -20°C~70°C (N455 with air flow CF/SSD), 5% ~ 95%, non-condensing	-20°C ~ 55°C with air flow (SSD), 5% ~ 95%, non-condensing
	Operating Shock	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 3G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis
	Operating Vibration	MIL-STD-810F 514.5C-2 (with SSD)	MIL-STD-810F 514.5C-2 (with SSD)	MIL-STD-810F 514.5C-1 with SATA HDD MIL-STD-810F 514.5C-2 with CompactFlash®/SSD	MIL-STD-810F 514.5C-2 (with SSD)
	Weight (Net/Gross)	2.2 kg/3 kg	2.2 kg/3 kg	2.1 kg/3.9 kg	2.5 kg/4.6 kg
	Safety/EMC	CE/FCC	CE/FCC	CE/FCC	CE/FCC
OS	Supported OS	Microsoft® WES7E, Microsoft® Windows® XP Embedded	Microsoft® WES7E, Microsoft® Windows® XP Embedded	Microsoft® Windows® XP Embedded	Microsoft® Windows® 8 Embedded, Microsoft® WES7E

*Notes : Power adapter supports 0°C ~ 40°C

- 1 IEIMobile Solutions
- 2 Automation Panel Solutions
- 3 Healthcare Panel PC Solution
- 4 Industrial System
- 5 ORing Network Communication
- 6 Automation Control
- 7 Optional Peripherals

Compact Size Embedded System



New



New



Model Name	uIBX-250-BW	uIBX-230-BT	uIBX-210-CV-N2600	uIBX-200-VX800B	
Chassis	Color	Black	Silver	Silver	
	Dimensions (WxDxH) (mm)	136.6 x 102.4 x 52	135.6 x 102.8 x 47	146.6 x 132 x 45.2	120 x 120 x 44.4
	System Fan	Fanless	Fanless	Fanless	Fanless
	Chassis Construction	Extruded aluminum alloy	Extruded aluminum alloys	Aluminum alloys	Aluminum alloys
Motherboard	CPU	Intel® Celeron® N3160 (up to 2.24 GHz, quad-core, 2 MB cache, TDP=6W)	Intel® Celeron® N2930 1.83 GHz	Intel® Atom™ N2600 1.6 GHz	VIA® Eden™ ULV 1 GHz
	Chipset	SoC	SoC	Intel® NM10	VIA® VX800
	System Memory	1 x 204-pin DDR3L 1.35 V SO-DIMM (system max: 8 GB) Pre-installed 2 GB	1 x 204-pin DDR3L 1.35 V SO-DIMM (system max: 8 GB) Pre-installed 2 GB	1 x 204-pin DDR3 SO-DIMM (system max: 2 GB) Pre-installed 2 GB	On-board DDR2 1 GB memory
Storage	Hard Drive	1 x 2.5" SATA 6Gb/s HDD/SSD bay	1 x 2.5" SATA 3Gb/s HDD/SSD bay	1 x 2.5" SATA HDD bay	N/A
	CF Card/CFast	N/A	N/A	N/A	1 x CF Type II
I/O Interfaces	USB 3.0	4	1	N/A	N/A
	USB 2.0	N/A	3	4	4
	Ethernet	2 x RJ-45 PCIe GbE by Intel® I211 controller	1 x RJ-45 1 x PCIe GbE by Intel® I210	1 x RJ-45 1 x PCIe GbE by Realtek 8111E	1 x RJ-45 1 x PCIe GbE by Realtek 8111CP
	RS-232	N/A	1 x DB-9	2 x DB-9	2 x DB-9
	RS-422/485	2 x RJ-45 RS-232/422/485	N/A	1 x RJ-45	N/A
	Button	1 x Power button 1 x AT/ATX switch	1 x Power button 1 x AT/ATX switch 1 x Reset button	1 x Power button 1 x AT/ATX switch 1 x Reset switch	1 x Power switch
	Display	1 x HDMI, 1 x VGA	VGA	1 x VGA, 1 x HDMI	1 x VGA
	Resolution	HDMI: 3840 x 2160@30MHz VGA: 1920 x 1200@60Hz	2560 x 1600	VGA: Up to 1920 x 1200 HDMI: Up to 1920 x 1080	VGA: Up to 1920 x 1440@60Hz
	Audio	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in
	Other	HDD LED	N/A	N/A	N/A
Wireless	N/A	N/A	1 x 802.11b/g/n (optional)	1 x 802.11b/g/n (optional)	
Expansions	PCIe Mini	1 x Full-size PCIe Mini card (co-lay mSATA)	N/A	1 x Full size (reserved for Wi-Fi module)	1 x Full size (reserved for Wi-Fi module)
Power	Power Input	DC Jack: 12 V DC	DC Jack: 12 V DC	DC Jack: 12 V DC	DC Jack: 5 V DC
	Power Consumption	12V @ 2A (Intel® Celeron® N3160 with 2 GB memory)	12 V@1.8 A (Intel® Celeron® N2930 with 2 GB memory)	12 V@1.57 A (Intel® Atom™ N2600 with 2 GB DDR3 memory)	5 V@2.52 A (VIA® Eden™ 500MHz DDR2 512MB) 5 V@3.2 A (VIA® Eden™ 1 GHz DDR2 1 GB)
Reliability	Mounting	Wall mount, VESA 75	Wall mount	VESA 75/100	VESA 75/100
	Operating Temperature	-20°C ~60°C with air flow (SSD), 10% ~ 95%, non-condensing	-20°C ~60°C with air flow (SSD), 5% ~ 95%, non-condensing	0°C ~50°C with air flow (mSATA), 5% ~ 95%, non-condensing	0°C ~50°C with air flow (CF), 5% ~ 95%, non-condensing
	Operating Shock	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 3G, 11ms, 3 shocks per axis	
	Operating Vibration	MIL-STD-810F 514.5 C-1(HDD), MIL-STD-810F 514.5 C-2(SSD)	MIL-STD-810F 514.5-1 (HDD), MIL-STD-810F 514.5 C-2 (SSD)	Meet MIL-STD-810F 514.5C-1	Meet MIL-STD-810F 514.5C-2
	Weight (Net/Gross)	470 g/1.4 kg	470 g/1.4 kg	980 g/1.8 kg	480 g/1.5 kg
	Safety/EMC	CE/FCC	CE/FCC	CE/FCC	CE/FCC
OS	Supported OS	Microsoft® Windows 8, Microsoft® Embedded Standard 7 E	Microsoft® Windows 8, Microsoft® Embedded Standard 7 E	Microsoft® Embedded Standard 7 E, Microsoft® Windows® XP Embedded, Microsoft® Windows® CE 6.0	Microsoft® Windows® XP Embedded, Microsoft® Windows® CE 5.0

1 IEMobile Solutions

2 Automation Panel Solutions

3 Healthcare Panel PC Solution

4 Industrial System

5 ORing Network Communication

6 Automation Control

7 Optional Peripherals

Digital Signage Embedded System



New



New



Model Name		IDS-300-BW	IDS-200-A70M	ECN-780-Q67
Chassis	Color	Silver	Black	Black
	Dimensions (WxDxH) (mm)	241 x 160 x 39	251 x 173.35 x 57	230 x 173 x 60
	System Fan	Fanless	Fanless	50 mm x 50 mm x 20 mm
	Chassis Construction	Aluminum alloys	Aluminum alloys	Aluminum alloys
Motherboard	CPU	Intel® Celeron® N3160 (up to 2.24GHz, quad-core, 2MB cache, TDP=6W)	AMD® R-series R-260H 2.1 GHz	Intel® Core™ i5-2xxT (above 2.7 GHz) Intel® Core™ i3-2xxT (above 2.5 GHz) Intel® Pentium® G6xxT (above 2.2 GHz)
	Chipset	SoC	AMD® A70M	Intel® Q67
	System Memory	1 x 1600/1333 MHz DDR3L SO-DIMM, 4 GB pre-installed (support up to 8GB)	2 x 204-pin DDR3 SO-DIMM 4 GB pre-installed (system max: 16GB)	On-board 2 GB DDR3 memory 1 x 204-pin DDR3 SDRAM SO-DIMM (system max: 10 GB)
IPMI	iRIS Solution	N/A	1 x iRIS-2400 (optional)	N/A
Storage	Hard Drive	1 x 2.5" SATA 6Gb/s HDD/SSD bay	1 x 2.5" SATA 6Gb/s HDD/SSD drive bay	1 x 2.5" SATA HDD bay
	SD Card	N/A	1	N/A
	mSATA	N/A	1 x mSATA (SATA 6Gb/s signal)	Optional
I/O Interfaces	USB 3.0	4	2	2
	USB 2.0	N/A	2	2
	Ethernet	2 X RJ-45 PCIe GbE by RTL8111E controller	2 x RJ-45 1 x PCIe GbE by Intel® I210 1 x PCIe GbE by Intel® I211	2 x RJ-45 1 x PCIe GbE by Intel® 82579 1 x PCIe GbE by Intel® 82583V
	RS-232	2 x RJ-45 RS-232	1 x RJ-45	2 x DB-9
	RS-422/485	N/A	N/A	1 x DB-9
	Button	1 x Power button	N/A	N/A
	Display	3 x HDMI	4 x HDMI	1 x HDMI, 1 x DVI-D, 1 x VGA
	Resolution	HDMI 1: up to 2560x1600 @ 60Hz HDMI 2&3 : up to 3840x2160 @ 30Hz	1920 x 1080@60Hz	VGA: Up to 2048 x 1536@75Hz HDMI: Up to 1920 x 200@60Hz DVI-D: Up to 1920 x 1080@60Hz
	Audio	N/A	1 x Line-out, 1 x S/PDIF	1 x Line-out, 1 x Mic-in
	Other	N/A	1 x SIM standard card slot	N/A
Wireless	1 x 802.11b/g/n (optional)	802.11b/g/n 2T2R (optional)	1 x 802.11b/g/n (optional)	
Expansions	PCle Mini	1 x Full size PCIe mini Card 1 x Full size PCIe mini Card (co-lay mSATA) 2 x Full-size PCIe Mini slot (one co-lay mSATA)	1 x Full size (supports mSATA), 1 x Half size	2 x Full size (reserved for Wi-Fi and TV-Tuner)
Power	Power Input	DC Jack: 12 V DC	DC Jack: 10 V~30 V DC	100 V~240 V AC
	Power Consumption	12 V@2 A (Intel® Celeron® N3160 with 4GB memory)	19 V@1.78 A (AMD® R-260H with 4 GB memory)	19 V@3.5 A (Intel® Core™ i7-2600S with 1333MHz 4 GB DDR3 memory)
Reliability	Mounting	Wall mount, VESA 75	Wall mount, VESA mount 75	Wall mount
	Operating Temperature	-20°C ~ 60°C with air flow (SSD), 10% ~ 95%, non-condensing	0°C ~ 50°C with air flow, 10% ~ 90%, non-condensing	-20°C ~ 50°C with air flow (SSD), 5% ~ 95%, non-condensing
	Operating Shock	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 3G, 11ms, 3 shocks per axis
	Operating Vibration	MIL-STD-810F 514.5 C-1(HDD), MIL-STD-810F 514.5 C-2(SSD)	MIL-STD-810F 514.5C-2 (with SSD)	MIL-STD-810F 514.5C-1 with SATA HDD MIL-STD-810F 514.5C-2 with CompactFlash®/SSD
	Weight (Net/Gross)	1.8 kg/ 3kg	5.24 kg/6.5 kg	3.1 kg/4.3 kg
OS	Safety/EMC	CE/FCC	CE/FCC	CE/FCC
	Supported OS	Microsoft® Windows® 8 Embedded, Microsoft® Windows® Embedded Standard 7 E	Microsoft® Windows® 8 Embedded, Microsoft® Windows® Embedded Standard 7 E	Microsoft® Windows® Embedded Standard 7 E, Microsoft® Windows® XP Embedded, Linux

*Notes : Power adapter supports 0°C ~ 40°C

- 1 IEIMobile Solutions
- 2 Automation Panel Solutions
- 3 Healthcare Panel PC Solution
- 4 Industrial System
- 5 ORing Network Communication
- 6 Automation Control
- 7 Optional Peripherals