

Compact Size Embedded System



Model Name	ITG-100-AL	uIBX-250-BW	uIBX-230-BT	
Chassis	Color	Blue & Silver	Black	Silver
	Dimensions (WxDxH) (mm)	ITG-100-AL-E1/S: 137 x 102.8 x 36.2 ITG-100-AL-E1: 137 x 102.8 x 56.2	136.6 x 102.4 x 52	137 x 102.8 x 57
	System Fan	Fanless	Fanless	Fanless
	Chassis Construction	Extruded aluminum alloys	Extruded aluminum alloy	Extruded aluminum alloys
Motherboard	CPU	Intel® Atom™ x5-E3930 1.3 GHz (up to 1.8GHz, dual-core, TDP=6.5W)	Intel® Celeron® N3160 (up to 2.24 GHz, quad-core, 2 MB cache, TDP=6W)	Intel® Celeron® N2930 1.83 GHz
	Chipset	SoC	SoC	SoC
	System Memory	1 x 204-pin DDR3L SO-DIMM 2 GB pre-installed (system max: 8GB)	1 x 204-pin DDR3L SO-DIMM 2 GB pre-installed (system max: 8GB)	1 x 204-pin DDR3L SO-DIMM 2 GB pre-installed (system max: 8GB)
Storage	Hard Drive	1 x 2.5" SATA 6Gb/s HDD/SSD bay (for ITG-100-AL-E1 sku only)	1 x 2.5" SATA 6Gb/s HDD/SSD bay	1 x 2.5" SATA 3Gb/s HDD/SSD bay
	CF Card/CFast	N/A	N/A	N/A
I/O Interfaces	USB 3.1 Gen 1	2	4	1
	USB 2.0	2 by pin-header (optional)	N/A	3
	Ethernet	2 x RJ-45 PCIe GbE by I211-AT controller	2 x RJ-45 PCIe GbE by Intel® I211 controller	1 x RJ-45 PCIe GbE by Intel® I210 controller
	COM Port	2 x RS-232/422/485 (DB-9/RJ45) 2 x RS-232 by pin-header (optional)	2 x RS-232/422/485 (RJ-45)	1 x RS-232 (DB-9)
	Button	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 button	1 x Power button 1 x AT/ATX switch 1 x Reset button
	Display	1 x VGA	1 x HDMI, 1 x VGA	1 x VGA
	Resolution	Up to 1920x1080@60Hz	HDMI: 3840 x 2160@30MHz VGA: 1920 x 1200@60Hz	Up to 2560 x 1600@60Hz
	Audio	N/A	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in
	Wireless	1 x 802.11a/b/g/n/ac (optional)	1x 802.11a/b/g/n/ac (optional)	N/A
	Expansions	1 x Full-size PCIe Mini slot (supports mSATA, colay with SATA) 1 x M.2 2230 (A key, PCIe by 1, USB2.0)	1 x Full-size PCIe Mini (support mSATA, colay with SATA)*	N/A
Power	Power Input	2-pin terminal block: 12 V DC	DC Jack: 12 V DC	DC Jack: 12 V DC
	Power Consumption	12V @ 1A (Intel® Atom™ E3930 with 2GB memory)	12V @ 2A (Intel® Celeron® N3160 with 2 GB memory)	12 V@1.8 A (Intel® Celeron® N2930 with 2 GB memory)
Reliability	Mounting	DIN-rail / Wall mounting	Wall mount, VESA 75	Wall mount
	Operating Temperature	-20°C ~ 60°C with air flow (SSD), 10% ~ 95%, non-condensing	-20°C ~60°C with air flow (SSD), 10% ~ 95%, non-condensing	-20°C ~60°C with air flow (SSD), 5% ~ 95%, non-condensing
	Operating Shock	Half-sine wave shock 5G, 11ms, 100 shocks per axis, IEC68-2-27	Half-sine wave shock 5G, 11ms, 3 shocks per axis	Half-sine wave shock 5G, 11ms, 3 shocks per axis
	Operating Vibration	MIL-STD-810G 514.6C-1 (SSD)	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)
	Weight (Net/Gross)	ITG-100-AL-E1/S: 0.67 kg/1.03 kg ITG-100-AL-E1: 0.86 kg/1.22 kg	470 g/1.4 kg	470 g/1.4 kg
Safety/EMC	CE/FCC	CE/FCC	CE/FCC	
OS	Supported OS	Microsoft® Windows 10 / Linux	Microsoft® Windows 8, Microsoft® Embedded Standard 7 E	Microsoft® Windows 8, Microsoft® Embedded Standard 7 E