ITG−100−AL

- **Ultra Compact Size**
- **Fanless DIN-Rail Embedded System**
- **Intel® Atom™ x5-E3930 1.3GHz (up to 1.8GHz) Solution**
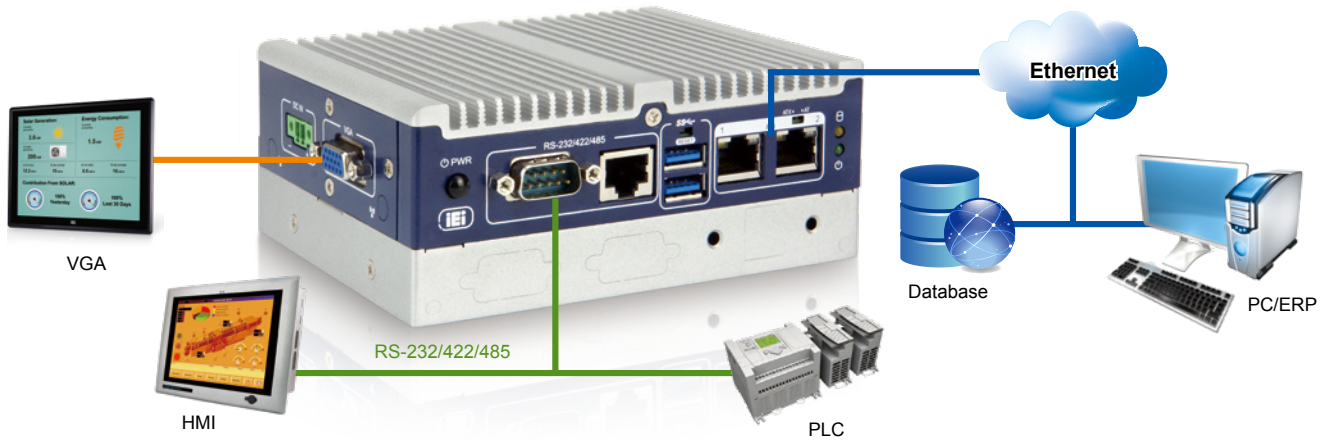
15 YEARS SUPPLY GUARANTEE

New

Features

- Intel® Atom™ x5-E3930 1.3GHz (up to 1.8 GHz)
- Two GbE LAN ports
- Two RS-232/422/485
- Full-size PCIe Mini slot and M.2 A-key slot for expansion

Fanless | **SUPERSPEED CERTIFIED USB 3.2 Gen 1** | **Dual LAN** | **RS-232 /422/485** | **M.2** | **PCIe Mini Expansion**

Intelligent Gateway

The ITG-100-AL equips with basic I/O ports and supports a wide range of operating temperature, making it suitable for acting the role as a data collection gateway in smart factory environments.

VGA

Ethernet

Database

PC/ERP

RS-232/422/485

HMI

PLC

A Wide Range of Applications

Given its practical features, the ITG-100-AL can be applied to a variety of application fields, such as military, industrial automation, and traffic control.
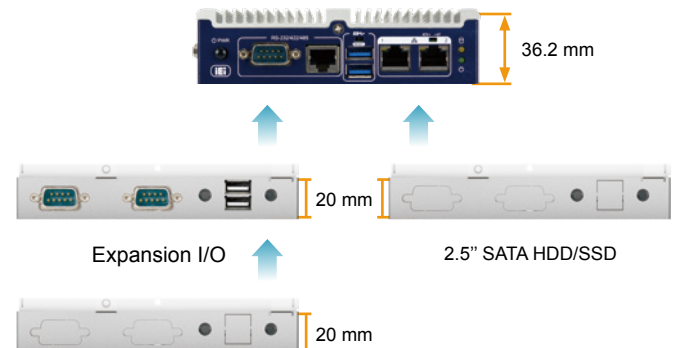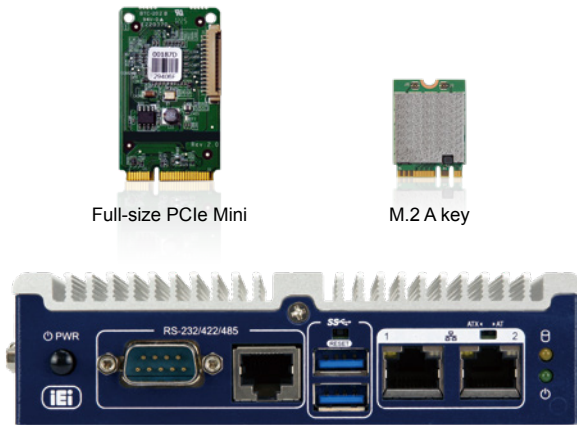
Military   Industrial Automation   Traffic control

Multi−layer Feature

Additional block layers can be assembled to achieve I/O interface expansion and data storage requirement. With choices of adding a 2.5" SATA HDD/SSD bay, a knockout-hole layer with selectable I/O interface, or both of above-mentioned options, the ITG-100-AL could be modularized to what best fit users' preferences and still remaining its compact size.

36.2 mm

20 mm

Expansion I/O

2.5'' SATA HDD/SSD

20 mm

Functionality Expansions

In order to respond the demand of adding more functions to the system, the ITG-100-AL is designed with a full-size PCIe Mini slot reserved for 3G/4G and a M.2 A-key slot reserved for Wi-Fi to provide function expansions with easy access.

Full-size PCIe Mini

M.2 A key

Ultra-compact Size

Space limitation is one of the constraints commonly seen in today's industrial environment. Under tight restrictions, the ITG-100-AL not only provides palm-sized design to meet the space requirement, but also comes with adequate basic I/O interfaces for various applications.

Specifications

Model Name		ITG-100-AL-E1/S	ITG-100-AL-E1
Chassis	Color	Blue & Silver	
	Dimensions (WxDxH)(mm)	137 x 102.8 x 36.2	137 x 102.8 x 56.2
	System Fan	Fanless	
	Chassis Construction	Extruded aluminum alloy	
Motherboard	CPU	Intel® Atom™ x5-E3930 1.3 GHz (up to 1.8GHz, dual-core, TDP=6.5W)	
	Chipset	SoC	
	System Memory	1x 204-pin DDR3L SO-DIMM slot (system max. 8 GB) (ITG-100-AL-E1/2GB/S-R10 SKU is pre-installed with 2 GB memory)	1x 204-pin DDR3L SO-DIMM slot (system max. 8 GB) (ITG-100-AL-E1/2GB-R10 SKU is pre-installed with 2 GB memory)
Storage	Hard Drive	N/A	1 x 2.5" SATA 6Gb/s HDD/SSD bay
	eMMC	1 x eMMC 5.0 support (up to 32GB, optional)	
	Micro SD	1 x Micro SD slot (optional)	
I/O Interfaces	USB 3.2 Gen 1 (5Gb/s)	2	
	USB 2.0	2 by pin-header (optional)	
	Ethernet	2 x RJ-45 PCIe GbE by Intel® I211-AT controller	
	COM Port	2 x RS-232/422/485 (DB-9/RJ-45) 2 x RS-232 by pin-header (optional)	
	Digital I/O	8-bit digital I/O, 4-bit input/4-bit output by pin-header (optional)	
	Display	1 x VGA	
	Resolution	Up to 1920x1080@60Hz	
	Wireless	1 x 802.11a/b/g/n/ac (optional)	
	Others	1 x Power button, 1 x Reset button, 1 x AT/ATX switch, 1 x LED for HDD (yellow), 1 x LED for power (green)	
Expansions	M.2	1 x 2230 A key (PCIe x1/ USB 2.0)	
	PCIe Mini	1 x Full-size (PCIe/ USB 2.0/ SATA)	
Power	Power Input	2-pin terminal block: 12 V DC	
	Power Consumption	12V @ 1A (Intel® Atom™ E3930 with 2GB memory)	
Reliability	Mounting	DIN-rail / Wall mounting	
	Operating Temperature	-20°C ~ 60°C with air flow (SSD), 10% ~ 95%, non-condensing	
	Storage Temperature	-30°C ~ 70°C with air flow (SSD), 10% ~ 90%, non-condensing	
	Operating Shock	Half-sine wave shock 5G, 11ms, 100 shocks per axis, IEC68-2-27	
	Operation Vibration	MIL-STD-810G 514.6C-1 (SSD)	
	Weight (Net/Gross)	0.67 kg/1.03 kg	0.86 kg/1.22 kg
	Safety / EMC	CE/FCC	
	Watchdog Timer	Programmable 1 ~ 255 sec/min	
OS	Supported OS	Microsoft® Windows 10 / Linux	