

GES-BIMIT

Motherboard

Intel® SkyLake-U or Kaby Lake-U Celeron, Pentium
3865U, I5-6300U, I5-7267U, I7-6660U

Features

- SkyLake-U or Kaby Lake-U Celeron, Pentium, Core® I3/I5/I7 CPUs
- Dual-Channel 2133MHz DDR4/1.2V Laptop Memory, Up to 16GB
- Display Options Include VGA, HDMI, LVDS, or eDP
- Supports Up to 2x Gigabit Ethernet ports.
- 1x M.2 Key-E Slot (for WiFi) and 1x M.2 Key-M Slot (2242/2280 SSD).
- 1x mSATA slot, with the Option Mini-PCIe Slot (Half or Full size, Supporting WiFi/4G).
- Supports Up to 8x USB Ports.
- 6x Built-in RS232 Serial Ports and Supports Up to 2x RS485 Ports.
- Uses Dual-Ball Bearing Smart
- Supports Switching Between AT and ATX Power Modes, Powered by 12V DC Supply.

Appearance



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Revision Table

Date	Revision	Content	By
2024/10/21	0.1	Mother Board Datasheet	Leon

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Specification

Motherboard	
CPU	SkyLake-U or Kaby Lake-U Celeron, Pentium, Core® I3/I5/I7 CPUs
Memory	Dual-Channel 2133MHz DDR4/1.2V Laptop Memory, Up to 16GB
Graphics	Integrated Intel® HD Graphics 540/610/620/650 (Depending on the Specific CPU Model) 1x VGA or DP Interface (Supports 4K 60Hz) 1x HDMI Interface 1x LVDS or eDP Interface (Default is LVDS) Supports Sync/Async Display with VGA or DP, HDMI, LVDS, or Edp
Ethernet	1x Realtek RTL8111H Gigabit Network Card (Optional 2 Network Ports), Supports Wake-On-LAN/PXE
Storage	2x SATA 3.0 Interfaces 1x M.2 Key-M 2280/2242 Slot
Audio	ALC897 7.1-Channel High-Definition Audio Controller, Supports MIC/Line-out, Amplifier (2 ohms, 5W Dual-Channel)
Expansion Slot	1x Mini-PCIe Slot (Supports Both Half and Full-Size Cards) Supports WiFi/4G Modules (Mini-PCIe Slot Can Also be Configured as mSATA) 1x M.2 Key-E Slot, Supports WiFi Modules
Back Panel I/O	1x HDMI Display Interface 1x VGA Display Interface (or DP Interface Supporting 4K 60Hz, VGA is the Default) 2x USB 2.0 Interfaces (USB 2.0 and RJ45 are Mutually Exclusive) 2x USB 3.0 Interfaces 1x RJ-45 Gigabit Network Interface (LAN2 and USB 2.0 are Mutually Exclusive) 1x Line-out Interface (Green) 1x MIC Interface (Red) 1x 12V DC Power Input

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Internal I / O	1x JHDMI Interface, 2* 8Pin (Optional) 1x JVGA Interface, 1* 12Pin (Shares the Same Signal as DB15) 1x LVDS Interface, 2* 15Pin, Supports Dual-Channel 24bit (Mutually Exclusive with eDP, LVDS is the Default) 1x Screen Backlight Power Interface, 1* 6Pin 1x eDP Interface, 2* 15Pin (Mutually Exclusive with LVDS, Optional) 4x USB 2.0 Interfaces, 2* 5Pin (when Dual Networks are Supported, Up to 6 USB 2.0 Interfaces are Available) 1x Front Audio Interface, 2* 5Pin 1x Amplifier Interface, 1* 4Pin 6x COM Interfaces (Note 1:) 1x LPT Interface 1x PS2 Interface, 1* 6Pin 1x Hard Disk Power Interface, 1* 4Pin 1x 4Pin ATX Power Interface 1x Front Panel Switch and LED Indicator Interface, 2* 5Pin
Fan Connector	1* 4Pin CPU Smart Fan Interface 1* 4Pin System Smart Fan Interface
GPIO	Supports 4 GPIO Inputs/Outputs
BIOS	64Mb Flash ROM
Watchdog	Supports Hardware Reset Function (256 Levels, 0~255 Seconds)
Support OS	Windows 7/Windows 10/Linux
Power Supply	Supports DC 12~19V

Note 1: (COM2/COM3 Support RS485, COM1/2 Pin9 with Power, Optionally Used as 2 Serial Ports)

Environment Compliance

Operating Temp.	-10°C ~ 60°C
Storage Temp.	-20°C ~ 70°C
Humidity	5% to 95% RH, Non-Condensing
Dimension	170mm x 170mm

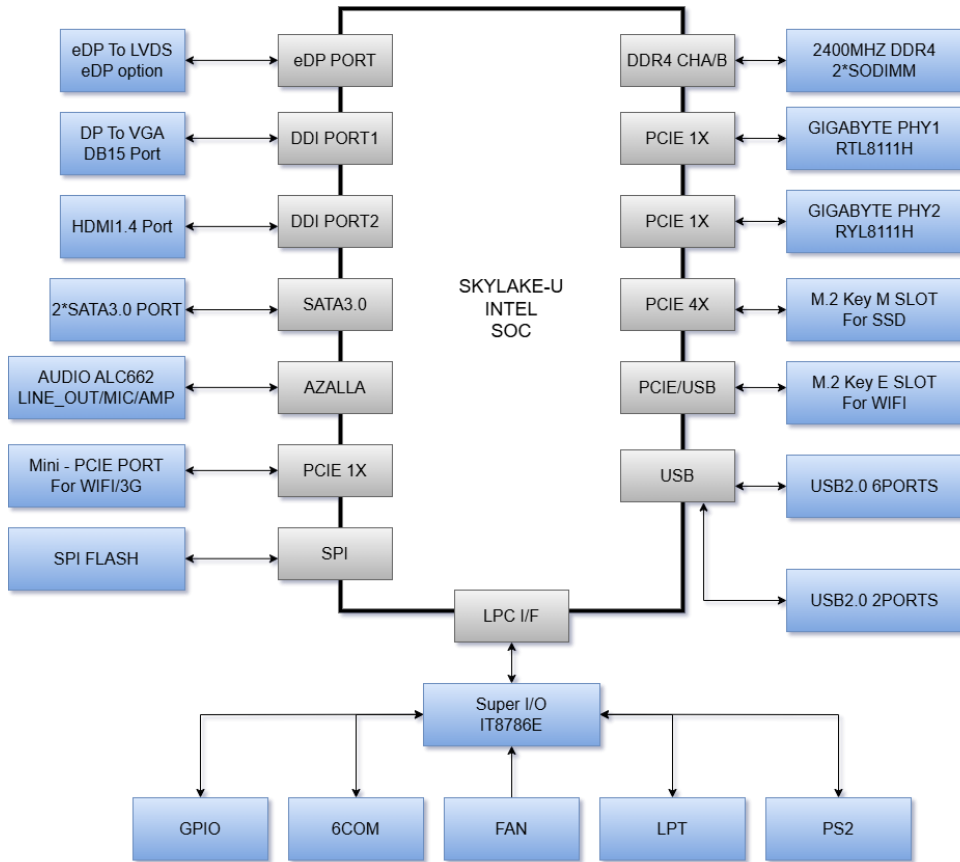
Environmental performance may vary according to the integration method or final integration scenario.

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Block Diagram



Ordering Information

No.	Model	CPU	Cores	Frequency	DDR	HDMI	VGA	LVDS	LAN	USB	PS2	LPT	COM/485	POWER
1	GES-BIMIT-3865	3865U	2	1.8Ghz	2x DDR4	1	1	1	2	8	1	1	6/2	12v
2	GES-BIMIT-6300	I5-6300U	2	2.4Ghz	2x DDR4	1	1	1	2	8	1	1	6/2	12v
3	GES-BIMIT-7267	I5-7267U	2	3.1Ghz	2x DDR4	1	1	1	2	8	1	1	6/2	12v
4	GES-BIMIT-6660	I7-6660U	2	2.4Ghz	2x DDR4	1	1	1	2	8	1	1	6/2	12v

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Deliverables

1 Intel Celeron 3865u MotherBoard

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Ordering Details

GES-BIMIT - 3 8 6 5

CPU/SOC:
Only take the digits
Example:
3865U- 3865
I5-6300U- 6300
I5-7267U- 7267
I7-6660U- 6660

Example: GES-BIMIT-3865
Intel Celeron 3865u MotherBoard