

GES-BINIT

Motherboard

Haswell-U or Broadwell-U Celeron, Pentium
Core® I3/I5/I7 CPUs

Features

- Haswell-U or Broadwell-U Celeron, Pentium, Core® I3/I5/I7 CPUs
- Single-Channel 1600/1333MHz DDR3L/1.35V Memory, Up to 8GB
- Display Options Include VGA, HDMI
- Supports Up to 2x Gigabit Ethernet Ports
- 1x Mini-PCIe (WIFI/4G) and 1x MSATA
- Supports 4x USB 3.0, 3x USB 2.0 Ports
- 2x RS232 Ports (Optional 2 RS485 Ports)
- Fanless Cooling
- Supports Switching Between AT and ATX Power Modes, Powered by 12V DC Supply

Appearance





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Revision Table

Date	Revision	Content	By
2024/10/11	0.1	Mother Board Datasheet	Leon

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Specification

Mother board	
CPU	Haswell-U or Broadwell-U Celeron, Pentium, Core® I3/I5/I7 CPUs
Memory	Single-Channel 1600/1333MHz DDR3L/1.35V Memory, Up to 8GB
Graphics	Integrated Intel® HD Graphics 4400 1x VGA 1x HDMI Interface Supports VGA and HDMI for Synchronous/Asynchronous Display
Ethernet	2x Realtek RTL8111H Gigabit Network Card (Optional 1 Network Port), Supports Wake-on-LAN/PXE
Storage	1x 7-Pin SATA 3.0 Interface, Transfer Rate up to 6Gbps 1x mSATA 3.0
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 WiFi/4G
Back panel I/O	1x HDMI 1.4 Display Interface 1x VGA Display Interface 2x USB 2.0 Interfaces 2x RJ-45 Gigabit Ethernet Ports (LAN2 and Dual-Layer USB 2.0 Port Are Mutually Exclusive, Default Is Ethernet Port) 1x 12V DC Power Input
Front panel I/O	4x USB 3.0 1x Line-Out and MIC Combo 3.5mm Audio Jack 2x DB9 RS232 Serial Ports (Default RS232, COM1 and COM2 Can Support RS485 via Jumpers) 1x HDD LED Indicator 1x Power Switch with LED

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Internal I /O	1x USB 2.0 Port, 1* 4-Pin (When Dual Ethernet Is Supported and 4G Is Not Supported, 2 USB 2.0 Ports Are Available) 1x Amplifier Port, 1* 4-Pin (Optional) 2x COM Ports, 2* 5-Pin (Shares Signal with Front I/O Port, Optional) 1* 4-Pin Power Connector 1x HDD Power Connector 1x Front Panel Power Switch and LED Interface, 2* 5-Pin
Fan connector	Back-Mounted CPU with Fanless Design, Reserved 1*4-Pin CPU Fan Connector
GPIO	Supports 4x 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 12V

Environment Compliance

Operating Temp.	-20°C ~ 60°C
Storage Temp.	-20°C ~ 70°C
Humidity	5% to 95%RH, Non-Condensing
Dimension	120mm x 120mm

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

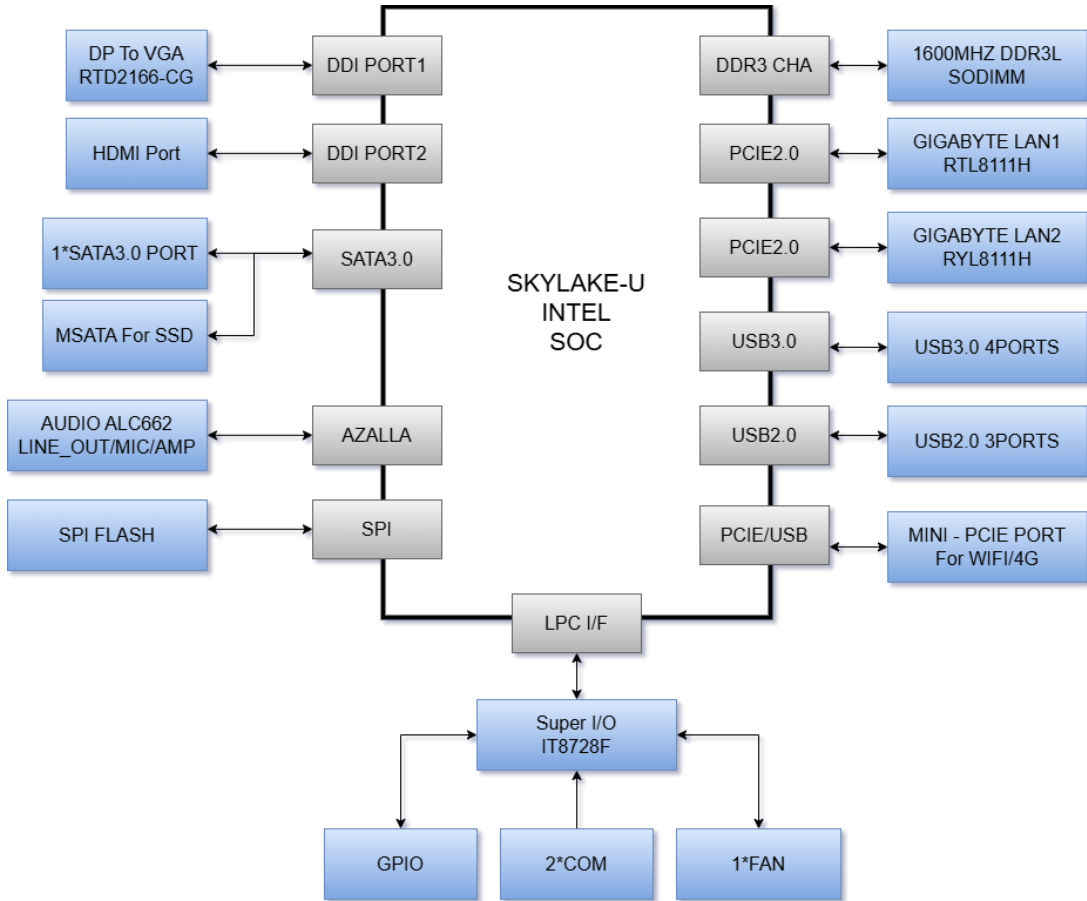
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Block Diagram



Ordering Information

No.	Model	CPU	Cores	Frequency	DDR	HDMI	VGA	LAN	USB	COM/485	POWER
1	GES-BIMIT-4030	I3-4030U	2	1.9Ghz	DDR3L	1	1	2	7	2/2	12v
2	GES-BIMIT-4300	I5-4300U	2	1.9Ghz	2x DDR4	1	1	2	7	2/2	12v
3	GES-BIMIT-5200	I5-5200U	2	2.2Ghz	2x DDR4	1	1	2	7	2/2	12v

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Deliverables

1 Intel i3 Mother Board

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Ordering Details

GES-BINIT - 4 0 3 0

CPU/SOC:
Only take the digits
Example:
I3-4030U
I5-4300U
I5-5200U

Example: GES-BINIT-4030

Intel i3 Mother Board