

GES-BINIT

Motherboard

Intel® Celeron J1900, N2840 Baytrail-I/M/D series

Features

- Integrated Intel® Celeron J1900 2.0GHz Quad-Core Processor, Compatible with Intel® Baytrail-I/M/D Series CPUs
- 1x SODIMM Slot, Supports Single-Channel 1600/1333MHz DDR3L/1.35V Memory, Up to 8GB
- VGA and HDMI Dual Displays, or Dual HDMI Displays
- 2x GbT
- 1x Mini-PCIe (WIFI/4G) and 1x mSATA
- 1x USB 3.0 Port and 5x USB 2.0 Ports
- 2x RS232 (Optional 2 RS485), with Optional Support for 4 Serial Ports
- Fanless Design, Can Be Made into A Sealed Unit for Dust and Moisture Resistance
- Supports a Wide Temperature Range of -20 to 60 Degrees Celsius
- AT and ATX Mode Switching, 12-19V DC Power 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

Mother board	
CPU	Integrated Intel® Celeron J1900/2.0GHz Quad-Core Processor TDP 10W Compatible with Intel® Baytrail-I/M/D Series CPUs
Memory	1x SO-DIMM Slot, Supports Single-Channel 1600/1333MHz DDR3L/1.35V Memory, Maximum Support of 8GB
Graphics	Integrated Intel® UHD Graphics 600 1x VGA Interface and 1x HDMI Interface, or 2x HDMI Display Interfaces Supports VGA and HDMI Synchronous/Asynchronous Display
Ethernet	2x Realtek RTL8111H Gigabit Network Cards, Supports Wake-on-LAN/PXE
Storage	1x 7* Pin SATA 3.0, Transfer Rate up to 6Gbps 1x mSATA 3.0 Slot (Long Card)
Audio	ALC897 7.1-Channel High-Definition Audio Controller, Supports MIC/Line-Out
Expansion slot	1x Mini-PCIe Slot (Supports Both Half-Length and Full-Length Cards), Supports WIFI/4G Modules
Back panel I/O	1x HDMI 1.2 Display Interface 1x VGA Display Interface (Optional with the Second HDMI 1.2 Interface, Default Is VGA) 1x USB 3.0 Interface 1x USB 2.0 Interface 2x RJ-45 Gigabit Network Interfaces 1x 12V DC Power Input Interface
Front I/O	4x USB 2.0 Interfaces 1x Line Out and MIC Combo Interface 2x DB9 RS232 Serial Ports (Default RS232, COM1 and COM2 Can Support RS485 Via Jumper) 1x Hard Drive Indicator Light 1x Power Switch Button with LED

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Internal I /O	1x USB 2.0 Interface 1* 4-Pin (USB2.0 Function Is Invalid When Supporting 4G, Optional) 2x COM Interfaces 2* 5-Pin (Same Signal as Front I/O Interfaces, JCOM1~4 Optional) 1* 4-Pin Power Input Interface 1x Hard Drive Power Interface 1x Front Panel Switch Button and Indicator Light Interface 2* 5-Pin
Fan connector	Back-Mounted CPU Fanless Cooling
GPIO	Supports 4 GPIO Inputs/Outputs
BIOS	64Mb Flash ROM
Watchdog	Supports Hardware Reset Function (256 Levels, 0~255 Seconds)
Support OS	Windows 7/10/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

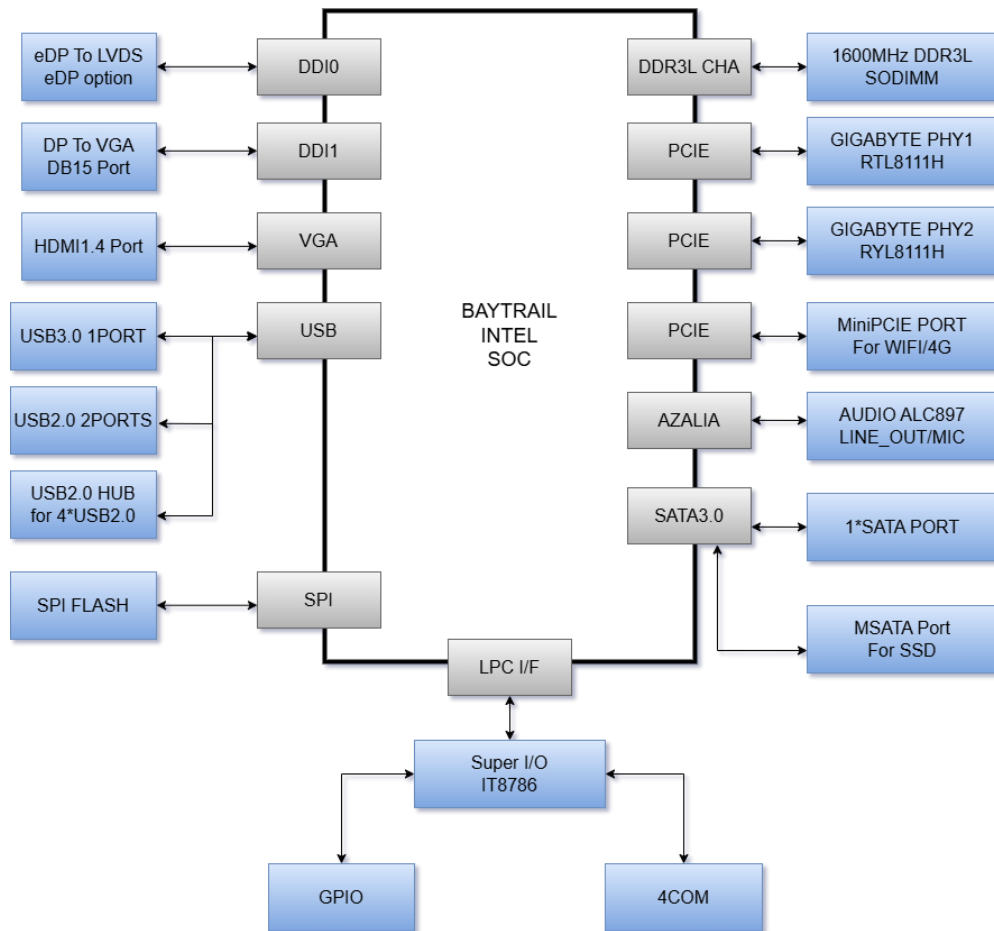
Environmental performance may vary according to the integration method or final integration scenario.

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Dimension & Interfaces



Ordering Information

No.	Model	CPU	Cores	Frequency	DDR	HDMI	VGA	LAN	USB	COM/485	POWER
1	GES-BINIT-1900	J1900	4	1.99Ghz	DDR3L	1	1	2	6	2/2	12v
2	GES-BINIT-2840	N2840	2	2.16Ghz	DDR3L	1	1	2	6	2/2	12v

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Deliverables

1 Intel Celeron Mother Board

2

Ordering Details

GES-BINIT - 1 9 0 0

CPU/SOC:
Only take the digits
Example:
J1900 - 1900
N2840 - 2840

Example: GES-BINIT-1900
Intel Celeron Mother Board