



# 1338-12-2L

## Product Features

The 1338-12-2L is a compact industrial embedded motherboard powered by the Intel Celeron N Series platform. It supports up to 16GB DDR4 SO-DIMM memory, SATA 6Gb/s, and M.2 Key-M SSD storage. With dual Gigabit Ethernet, rich USB, dual serial ports, GPIO, SIM slot, mPCIe, audio, DP, and dual HD outputs, it offers strong integration flexibility for industrial control, smart terminals, digital signage, HMIs, edge gateways, and automation systems. Its -20°C to 55°C operating range ensures reliable performance in demanding environments.

## Application Scenarios



Embedded Terminal



IoT Gateway



Industrial Automation



Digital Signage

Processor	Product Collection	Intel Celeron Processor N Series	
	Sockets Supported	FCBGA1338	
Memory specifications	Memory Type	DDR4 SO-DIMM	
	Maximum Capacity	16GB	
	Maximum Frequency	2933 MHz	
Storage specifications	SATA	1*SATA 6Gb/s	
	M.2	1*M.2 Key-M 2280 (PCIe 3.0 x1)	
Extension interface	mPCIe	1*mPCIe	
Display functions	Port	1*DP/2*HD	
	Chip	Intel UHD Graphics	
Backplane I/O	Ethernet	2*RJ45	
	COM	2*DB9 COM	
	Power supply	1*Jack DC 5.5/2.5mm	
	Display	1*DP/2*HD	
	USB	4*USB-A 3.0, 2*USB-A 2.0, 1*USB-C	
	Audio	1*Jack Audio	
	Button	1*Power Button	
	Onboard I/O	SATA	1*SATA Data connector/1*SATA Power socket
		SIM	1*SIM Card slots
		Fan	1*CPU fan power socket
Pins		1*F_PANEL 1*J_GPIO	
Power supply mode	DC	12V	
Motherboard size	Specification	121.6*121.6 (mm)	
Work Environment	Temperature	-20~55°C	
	Humidity	5%~90% (Relative humidity, no condensation)	



# G30S-1338-2L

## Product Features

The G30S-1338-2L is a compact fanless embedded computer powered by the Intel Celeron N Series platform. It supports up to 16GB DDR4 SO-DIMM memory, SATA 6Gb/s storage, and an M.2 Key-M 2280 SSD. With dual Gigabit LAN, DP and dual HD outputs, USB-C, multiple USB ports, dual DB9 COM, audio, mPCIe expansion, and antenna openings, it is ideal for industrial control, digital signage, edge computing, self-service terminals, and IoT applications. Its compact chassis and passive cooling ensure quiet, reliable operation in limited spaces.

## Application Scenarios



Embedded Terminal



IoT Gateway



Industrial Automation



Digital Signage

Processor	Product Collection	Intel Celeron Processor N Series	
	Sockets Supported	FCBGA1338	
	Memory Type	DDR4 SO-DIMM	
Memory specifications	Maximum Capacity	16GB	
	Maximum Frequency	2933 MHz	
	Storage specifications	SATA	1*SATA 6Gb/s
Storage specifications	M.2	1*M.2 Key-M 2280	
	Network features	Ethernet	2*1GbE
Network features	Controller	2*Realtek RTL8111H	
	Extension interface	mPCIe	1*mPCIe
Interface	Front Panel	Power	1*Jack DC_IN
		Ethernet	2*RJ45
	Display	Display	1*DP/2*HD
		USB	1*USB-C, 2*USB-A 2.0
	Button	Button	1*Start or Restart
		USB	4*USB-A 3.0
	Back Panel	Serial port	2*DB9 COM
		Audio	1*Jack Audio
		Antenna	2*Reserved
	Cooling Method	Passive Cooling, Fanless (Need air flow)	
System Specifications	Chassis Size	136*126*40 (mm)	
	Weight	Equipment Weight 0.65 KG; Package Weight 1.15 KG (including accessories)	
Power Mode	DC	12V 4A or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	



# H30S-1338-2L

## Product Features

The H30S-1338-2L is a compact fanless embedded computer powered by the Intel Celeron N Series platform. It supports up to 16GB DDR4 SO-DIMM memory, SATA 6Gb/s storage, and an M.2 Key-M 2280 SSD. With dual Gigabit LAN, DP and dual HD outputs, USB-C, multiple USB ports, dual DB9 COM, audio, and antenna openings, it delivers reliable connectivity for industrial and commercial applications. Its compact chassis, DC 12V input, and passive cooling design make it ideal for quiet, space-limited embedded deployments.

## Application Scenarios



Embedded Terminal



IoT Gateway



Industrial Automation



Digital Signage

Processor	Product Collection	Intel Celeron Processor N Series		
	Sockets Supported	FCBGA1338		
	Memory Type	DDR4 SO-DIMM		
Memory specifications	Maximum Capacity	16GB		
	Maximum Frequency	2933 MHz		
	Storage specifications	SATA	1*SATA 6Gb/s	
Storage specifications	M.2	1*M.2 Key-M 2280		
	Network features	Ethernet Controller	2*1GbE 2*Realtek RTL8111H	
Extension interface	mPCIe	1*mPCIe		
Interface	Front Panel	Power	1*Jack DC_IN	
		Ethernet	2*RJ45	
		Display	1*DP/2*HD	
		USB	1*USB-C, 2*USB-A 2.0	
	Back Panel	Button	1*Start or Restart	
		USB	4*USB-A 3.0	
		Serial port	2*DB9 COM	
		Audio	1*Jack Audio	
		Antenna	2*Reserved	
	Cooling Method	Passive Cooling, Fanless (Need air flow)		
System Specifications	Chassis Size	138*126*48 (mm)		
	Weight	Equipment Weight 0.75 KG; Package Weight 1.25 KG (including accessories)		
Power Mode	DC	12V 4A or Higher		
Work Environment	Temperature	0~50℃		
	Humidity	5%~90% (Relative humidity, no condensation)		



# H31F-1338-2L

## Product Features

The H31F-1338-2L is a compact embedded computer powered by the Intel Celeron N Series platform. It supports up to 16GB DDR4 SO-DIMM memory, SATA 6Gb/s storage, and an M.2 Key-M 2280 SSD. With dual Gigabit LAN, DP and dual HD outputs, USB-C, multiple USB ports, dual DB9 COM, audio, mPCIe expansion, and antenna openings, it offers reliable connectivity and flexible expansion for industrial and commercial applications. Its smart chassis fan cooling ensures stable operation in embedded deployments.

## Application Scenarios



Embedded Terminal



IoT Gateway



Industrial Automation



Digital Signage

Processor	Product Collection	Intel Celeron Processor N Series	
	Sockets Supported	FCBGA1338	
Memory specifications	Memory Type	DDR4 SO-DIMM	
	Maximum Capacity	16GB	
Storage specifications	Maximum Frequency	2933 MHz	
	SATA	1*SATA 6Gb/s	
Network features	M.2	1*M.2 Key-M 2280	
	Ethernet	2*1GbE	
Extension interface	Controller	2*Realtek RTL8111H	
	mPCIe	1*mPCIe	
Interface	Power	1*Jack DC_IN	
	Front Panel	Ethernet	2*RJ45
		Display	1*DP/2*HD
		USB	1*USB-C, 2*USB-A 2.0
	Back Panel	Button	1*Start or Restart
		USB	4*USB-A 3.0
		Serial port	2*DB9 COM
Audio		1*Jack Audio	
Antenna	2*Reserved		
Cooling Method	Active, Cooling Fan, 1*Smart Chassis fan		
System Specifications	Chassis Size	178*126*56 (mm)	
	Weight	Equipment Weight 1.25 KG; Package Weight 1.95 KG (including accessories)	
Power Mode	DC	12V 4A or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	