



BKHD-1140N4L

Product Features

The BKHD-1140N4L is a compact embedded industrial motherboard powered by AMD Ryzen Embedded R2000 series processors. Within a space-efficient form factor, it integrates 4x 2.5GbE Ethernet ports, high-performance AMD Radeon graphics, rich expansion interfaces, and industrial-grade reliability. Designed for applications requiring high network bandwidth, strong graphics performance, and compact deployment, it is ideal for industrial gateways, edge computing, network security, digital signage, and self-service terminals.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	AMD Ryzen Embedded R2314
	Sockets Supported	FP5
	Memory Type	DDR4 SO-DIMM
Memory specifications	Maximum Capacity	32GB
	Maximum Frequency	2666MHz
	SATA	1*SATA 6Gb/s
Storage specifications	M.2	1*M.2 Key-B+M(PCIe 3.0 x4/SATA)
	Ethernet Controller	4*2.5GbE 4*Intel I226V
Network features	Ethernet	4*2.5GbE
	Controller	4*Intel I226V
Extension interface	mPCIe	1*mPCIe (PCIe+USB2.0 signal)
	M.2	1*M.2 Key-B (USB3.0 signal)
Display functions	Pins	1*DP/1*HD
	Chip	AMD Radeon RX Vega 6
I/O Chip	Chip	IT8784E-I
	Ethernet	4*RJ45
Backplane I/O	USB	2*USB-A 3.2, 4*USB-A 2.0
	Console	1*RJ45 COM
	Button	1*Power button, 1*Reset button
	Power supply	1*Jack DC 5.5/2.5mm
Onboard I/O	SATA	1*SATA Data connector, 1*SATA Power socket
	SIM	1*SIM Card slots
	Fan	1*CPU_FAN
	Pins	1*_F_PANEL 2*_J_COM
Power supply mode	Power	1*Jack DC 12V
Motherboard size	Specification	120*120 (mm)
Work Environment	Temperature	0~60°C (Operating); -20°C~75°C (Storage)
	Humidity	0%~95% (Relative humidity, no condensation)



G31F-1140N4L

Product Features

The G31F-1140N4L is a high-performance industrial network appliance powered by AMD Ryzen Embedded processors. Housed in a compact metal chassis, it integrates four 2.5GbE Ethernet ports, dual SIM slots, and rich industrial I/O, along with an intelligent active cooling system. Designed for applications requiring high network bandwidth, strong graphics capability, and stable operation under sustained workloads, it is ideal for edge computing, network security, industrial gateways, and virtualization environments. It performs reliably in industrial sites, server rooms, and high-temperature environments.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Virtualization Platform

Processor	Product Collection	AMD Ryzen Embedded R2314	
	Sockets Supported	FP5	
	Memory Type	DDR4 SO-DIMM	
Memory specifications	Maximum Capacity	32GB	
	Maximum Frequency	2666MHz	
	Storage specifications	SATA	1*SATA 6Gb/s
M.2		1*M.2 Key-B+M(PCIe 3.0 x4/SATA)	
Network features	Ethernet	4*2.5GbE	
	Controller	4*Intel I226V	
	Network	4*RJ45	
Interface	Front Panel	Console	1*RJ45 COM
	Power	1*Jack DC_IN	
	USB	2*USB-A 3.2/4*USB-A 2.0	
Back Panel	Display	1*HD/1*DP	
	SIM	2*SIM Card slot	
	Button	1*Power button	
Extension interface	Antenna hole	2*Reserved	
	mPCIe	1*mPCIe	
Cooling Method	M.2	1*M.2 Key-B	
	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 7A or Higher	
Work Environment	Temperature	0~60°C	
	Humidity	5%~90% (Relative humidity, no condensation)	