



Power System Management Gateway Box PC based on LS1023A CPU

Description:

SD-WAN, software-defined wide area network, is a service applying SDN technology to wide area network scenarios. The NCF-N1023J-5NB box PC is used in a wide geographical range of terminal access, helping users reduce WAN expenses and improve network connection flexibility.

Features:

- Designed with rich I/O interfaces such as USB, Wifi, 4G, 5G and Ethernet, etc.
- Supports 1GB DDR4 RAM and 8GB storage (industrial grade)
- Passive cooling design, low power consumption
- Adopts reliability design to ensure stable performance of the system
- Supports Ethernet expansion and other interfaces through QSGMII interfaces



Specification:

Master Control		
CPU	LS1023A	
DDR	MICRON 1GB	
ROM	MICRON eMMC 8GB	
USB	1 x USB2.0	
Serial Port	1 x RJ45	
Reset	Support 1 Manual Reset	
LED	6 x GE Port LED, PWR LED, SYSTEM LED, Cloud LED, Wifi LED, 4G LED	6 x GE Port LED, PWR LED, SYSTEM LED, Cloud LED, Wifi LED, 4G LED
OS		
Support Openwrt Linux and Ubuntu Linux		
Exchange		
MAC	RTL8214B	
RJ45	5 x 10/100/1GBASE-TX/T RJ45	6 x 10/100/1GBASE-TX/T RJ45
4G		
Operating Frequency	TDD-LTE/ FDD-LTE/ TD-SCDMA/ WCDMA/ EVDO/CDMA/GSM 7 Modes 16 Frequencies	
5G		
Support by changing 5G Mode Expansion		
Wireless		
Operating Mode	2 x 2 MIMO 802.11n	
Port Form		
Fixed Ports	5 x 10/100/1000BASE-TX/T RJ45	
	USB: 1 x USB 2.0	
	1 x Reset Button	
	1 x Console	
	6 x Antenna Interfaces	
USB	USB2.0	
Power Supply	Power Adapter, 12V/3A	
Product Form		
Dimension(W x D x H)	270 x 167 x 40mm	
Cooling	Passive Cooling	
LED Light	5 x GE Port LED	6 x GE Port LED
	PWR LED	PWR LED
	SYSTEM LED	SYSTEM LED
	Wifi LED	Wifi LED
	LTE LED	LTE LED
Environment		
Working Temperature	Two Options:	
	Wide Temperature Range: -10~70°C Standard Temperature Range: 0~50°C	
Storage Temperature	-40~70°C	
Storage Relative Humidity	10%—90%(non-condensing)	
Operating Relative Humidity	10%—90%(non-condensing)	
EMC		
CCC	Support	
CE	Support CISPR22 CLASSA	
RE	Support CISPR22 CLASSA	
CS	Support GE Ethernet Interface: 0.15~80MHz: 3V, Criterion A	
RS	Support CISPR22 CLASSA	
SURGE	Support GE Ethernet Interface: Common-mode 8kV(1.2/50us), Differential-mode 1KV(1.2/50us)	
EFT	Support GE Ethernet Interface: Common-mode 2kV(1.2/50us)	
ESD	Support Direct 6KV/8KV, Air 8KV/15KV	

ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9 years' experience, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip, Allwinners and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

