

JTG-N43

介绍

工业边缘计算综合网关开放式硬件平台，客户可以基于提供的 linux 系统开发自定义 APP，并实现在边缘计算网关的灵活部署，就近提供智能联接和数据处理业务，让不同类型的应用和数据在网络边缘处理，实现业务实时、业务智能、数据聚合与互操作、安全与隐私保护等关键智能服务，有效提升业务的智能决策效率。



主要技术

多种接口类型

JTG-N43 系列硬件平台可支持多种接口类型，USB、RS485、RS232、WIFI、4G、5G、Ethernet 等。

大容量存储和内存

JTG-N43 系列最大可以支持到 64GB 的工业级存储容量。能实现快速读写数据。可支持 DDR4 4GB 内存，提高运行效率。

可靠性与能效

JTG-N43 系列采用可靠性设计，提高了系统的可靠性。支持无风扇自散热方式，达到降低能耗的要求。

可扩展性

JTG-N43 系列可以通过 XFI 接口扩展以太网连接数以及丰富的接口类型。

支持 POE 供电

JTG-N43 系列可以支持 802.3af/at 的 POE 供电功能。

支持工业标准

JTG-N43 系列可以提供工业级标准设备以及宽温级设备两种不同规格，以满足不同应用场景的需求。

Main control hardware	CPU	LS1043A: 64bit ARM cortexA53, 4 cores, up to 1.6GHz
	DDR	MICRON: Option 512MB~4GB, 32bit wide/8bit*4, up to 1.6GT/S
	ROM	MICRON eMMC: 8GB~64GB eMMC, HS200, 4bit wide ATMEL EEPROM: 16KB
	RTC Function	Support
	Temperature monitoring	1.LM75, LS1043A
	USB	3 x USB3.0
	WAN	REALTEK GE PHY: 2 x RTL8211FS RGMII to 1000base-t
	RS485	MAXLINEAR USB to UART: 1 X R21B1424 USB-4UART chipset 4 X R3078 RS485 chipset
	RS232	MAXLINEAR UART chipset :2 x SP3232 RS232 chipset
	Switch	4-way switch input 4-way switch dry contact output
	Reset	Support 1-way manual reset Support 4-way voltage monitoring reset Support hardware watchdog reset
switch hardware	MAC	BCM53162
	POE	MICROSEMI PD69104: Support IEEE802.3 af/AT POE power supply
	Temperature monitoring	LM75, BCM53162
	LAN	8 x 10/100/1GBASE-TX/T RJ45, two of them support 60W 802.3AT power supply 2 x 1GBASE-X SFP
Port shape	fixed port	WAN: 2*10/100/1000BASE-TX/T RJ45 LAN: 8*10/100/1000BASE-TX/T RJ45 + 2*1000BASE-X SFP UART: 4*RS485 + 2*RS232 Switch: 4*DI + 4*DO USB:1* TYPEA USB3.0
	WAN	Use single port with yellow and green double LED shielded transformerless RJ45
	LAN	Use 1 x 8 shielded transformerless RJ45 with yellow and green double LEDs

		Using a single port SFP cage
	UART	Use single row phoenix terminal, single port 3pin
	Switch	Use double row phoenix terminal, single port 2pin
	USB	Support current limit, current limit 500MA, use single port TYPEA USB3.0 blue core interface
	Fiber Module	Support mainstream 1GBASE-SX/LX fiber optic modules Support GE fiber optic cable conversion module
	Power supply	Single row 10A Phoenix terminal power supply: 2pin 12V power supply/2pin 48V power supply
Product form	Size	212.7*127*63mm
	Cooling method	Outdoor natural cooling of the whole machine
	Panel Light	RJ45 supports two-color lights; green is 1000m, yellow is 10/100m LINK is always on, ACTIVE is flashing SFP uses external green plug-in LED to indicate port status Support SYS/PWR green plug-in LED status indication
Environment	Operating temperature	Industrial standard: -40~85℃; Wide temperature standard: -10~70℃; The equipment life cycle is calculated according to 5 years;
	Storage temperature	-40 到 85℃
	Storage humidity	5% – 95% (Non-condensing)
	Operating humidity	5% – 95% (Non-condensing)
	operating altitude	AC up to 5000 meters
	Mechanical vibration	Sinusoidal vibration operation (Work vibration) : 5-200Hz: 10m/s ² ; Shock operation (Work shock) : half sine, 11ms, 100m/s ² ;
	Transportation	Packaging and transportation meet ETSI 300019 Class 2.3: Public transportation
EMC	CCC	Support
	CE	Support CISPR22 CLASSA
	RE	Support CISPR22 CLASSA
	CS	Support GE network port: 0.15~80MHz: 3V, A
	RS	Support CISPR22 CLASSA
	SURGE	Support GE network port: 8kV (1.2/50us) ,1KV (1.2/50us) Support RS485: 8kV (1.2/50us) ,4KV (1.2/50us)
	EFT	Support GE network port: 2kV (1.2/50us) RS485: 2kV (1.2/50us)
	ESD	Support IEC61000-4-2