LINOVISION

IOT-C104

4 Ports RS485 to Ethernet Converters (Serial Server)

IOT-C104 is 4-port serial to Ethernet converter. It adopts Cortex-M7 solution,which has a main frequency up to 400MHz, powerful performance, fast transmission speed, and high reliability. Equipped with a deeply optimized TCP/IP stack, built in hardware and software watchdog and a variety of keepalive mechanisms,IoT-C104 keeps online all the time. It supports TCP Client, TCP Server, UDP Client, UDP Server and HTTPD Client working modes, achieves data transparent transmission via simple configuration.

The IOT-C104 supports Modbus RTU Master for retrieving field site data from serial meters. After collecting data, users can convert serial data to MQTT json format data, allowing users to get field site data. This two-in-one design reduces system complexity and the amount of space required in the network topology, as well as overall installation time.

Outstanding Features

- **FOUR RS485 TO ETHERNET** – Integrate your existing multiple RS485 devices with Ethernet for remote monitoring and control, overcoming distance limitations
- **MODBUS GATEWAY** - Modbus RTU/TCP conversion, allowing Modbus signals to be transparently transmitted between different devices and networks. Supports multi-host polling for up to 16 hosts
- **EDGE COMPUTING** – Integrates and processes data from multiple serial devices locally, sending it to servers in a custom JSON format to reduce server load and enhance overall network reliability
- **PROTECT DATA SECURITY** – support SSL/TLS encryption, preventing data leakage and unauthorized access during transmission. Suitable for industries with high security requirements
- **INDUSTRIAL-GRADE DESIGN** – Wall and rail mountable, IP30 protection, wide operating temperature from -40°F to 185°F
- **FREE CLOUD SUBSCRIPTION** – Free subscription to Linovision AIoT RemoteMonit Cloud for the first year
- **POWERFUL PROCESSOR** – Upgraded to Cortex-M7 processor, with the speed of 400MHz providing more efficient and reliable performance

Specification

Item	Parameter	Description
HardwareParameters	InputVoltage	DC5.0~36.0V
	InputCurrent	Mean:76mA@12V
	Dimensions	222*142*29mm (8.74" * 4.8" * 1.14") (L*W*H, includingterminalsandmountinggears)
	Installation	Panelmounting
	GroundScrew	1
	OperatingTemperature	–40~85℃ (–104~185℉)
	StorageTemperature	–40~ 105℃ (–104~221℉)
	OperatingHumidity	5%~95% RH(non-condensing)
	StorageHumidity	5%~95% RH(non-condensing)
	Certifications	CE/FCC/ROHS
InterfaceParameters	EthernetPortSpec.	RJ45, 10/100Mbps, autoMDI/MDIX
	EthernetPortNo.	1
	Serialsignals	RS-232: TxD, RxD, RTS, CTS, GNDRS-422: Tx+, Tx-, Rx+, Rx-, GNDRS-485-2w: A+, B-, GND
	SerialPortNo.	4
	SerialBaudRate	600~921.6k(bps)
	DataBit	7, 8
	Parity	None,Even, Odd, Mark, Space
	FlowControl	None,RTS/CTS(RS-232 only), XON/XOFF
	RS-485 Pull-upandPull-downResistor	2.2KΩ
HardwareProtection	ESD-IEC61000-4-2Level4	Air±15KV, contact±8KV
	Surge-IEC61000-4-5level3	±2KV
	EFT-IEC61000-4-4Level3	±2KV
SoftwareParameters	NetworkProtocols	TCP,UDP,IPV4,ARP,ICMP,DHCP,NTP,HTTP,TLS/SSLV3,DNS,IGMP,SNMPV1/V2C,MQTT
	IPMode	StaticIP, DHCP
	ModbusGateway	Support
	Websocket	Support
	HTTPClient	Support
	UDPBroadcast/Multicast	Support
	UserConfiguring	Setuputility, webpage, ATcommands
	SerialPacketsCache	Dynamicpacketcache.Forexample:Whenthepacketlengththis10 byte, theserialportcancache450packets(4.5KB).Whenthepacketlengththis1460 bytes, theserialportcancache10packets(14.6KB).
	EthernetPacketsCache	48Kbyte

Dimensions

1.14"
(29mm)

4.8"
(122mm)

8.74"
(222mm)

Weight:834g (1.84 lb)