USR-K Port Specification
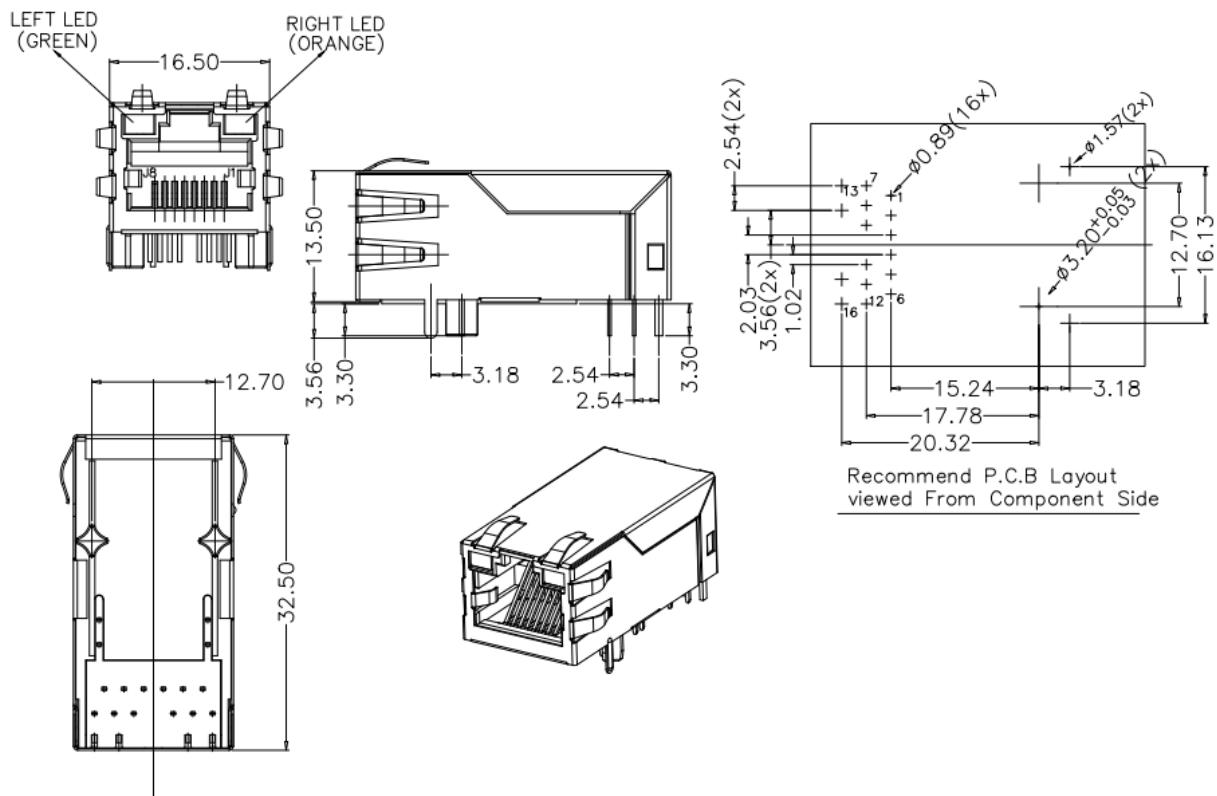## Embedded Super Port Module

Introduction

USR-K3 is an embedded TCP/IP modules that integrates the TI Cortex-M4 processor which can provide improved performance and high stability. This module has a high frequency of up to 120 Mbps. It is also a highly integrated module that includes TTL, Ethernet port, built-in network transformer, all these can easily achieve data transmission between TTL and Ethernet port and greatly reduce user's development time and improve their development progress.

Product Features

- 10/100 Mbps Ethernet port, auto MDI/MDX and auto Negotiation.

- Link/Data LEDs can indicate the module's work status.

- 1.5 KV electromagnetic isolation and built-in network transformer for ethernet port.

- Supports hardware flow control：RTS/CTS.

- USR-VCOM is compatible with both the modules.

- Multiple parties are available, such as None, Odd, Even, Space, Mark.

- Customized webpage can help users to build brand influencers.

- Modbus gateway: protocol conversation between Modbus RTU and Modbus TCP, supports multiple hosts to poll slave.

- WebSocket function can achieve bidirectional data transmission between the serial port and webpage.

- Supports keepalive mechanism which can quickly detect abnormalities such as dead connections and reconnect quickly.

Dimensions(mm)

Recommend P.C.B Layout viewed From Component Side

Specifications

Model	USR-K3
Processor	TI Cortex-M4
Frequency	120 Mbps
Power	
Power Supply	DC: 3.0~3.6V(3.3V is recommended)
Consumption	110mA(Aver)@3.3V
Ethernet	
Port Number	1 x RJ45
Rate	10 /100 Mbps, auto MDI/MDX
Protection	1.5KV electromagnetic isolation
Serial Port	
Port Number	1 x TTL (3.3V TTL)
Baud rate	600 bps~1 Mbps
Data Bits	5, 6, 7, 8
Stop Bit(s)	1, 2
Parity Bit	None, Even, Odd, Space, Mark
Flow Control	Hardware: RTS/CTS
Serial Packet Cache	Send: 2K Bytes Receive: 2K Bytes
Physical Character	
Dimensions(mm)	33.0x19.0x19.2(L*W*H)
Operating Temperature	-40 ~ 85℃
Storage Temperature	-40~120℃
Operating Humility	5% ~ 95%（Non-condensing）
Storage Humility	5% ~ 95%（Non-condensing）
Basic Features	
IP protocol	Static/DHCP
DNS	√
User-defined DNS	√
Built-in Webpage	√
Config Method	Built-in Webpage, Config Software, Open Config Protocol, AT Command
Work Mode	TCP Server/TCP client/UDP Server/UDP Client
HTTPD client	√
Modbus Gateway	√
WebSocket	√
Custom Webpage	√
RF2217 Similar	√
Registration Packet	√
Heartbeat Packet	√
Others	
Certificate	*CE, FCC, *RoHS, *WEEE
Warranty	1 year

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