



SerialPort E20

Embedded
Device Server



BUILD NETWORK CONNECTIVITY INTO YOUR PRODUCTS, QUICKLY AND SIMPLY

The SerialPort E20 is a compact, fully self-contained, integrated solution which provides a serial interface and Ethernet connectivity to web enable any device. This enables the SerialPort E20 to be simply accessed and controlled over the Internet.

Full Networking in a Tiny package

The SerialPort E20 integrates all serial to Ethernet functionality into a low-profile, 50 x 23 x 11mm standard RJ45 module package, that can be easily mounted on the main PCB thus eliminating the need to change your original design. All the required hardware and software is therefore presented as a single embedded, fully integrated solution.

Integrated Network Solution

The SerialPort E20 with its integrated fully developed TCP/IP network stack has a FreeRTOS OS and integrates a TCP/IP controller, memory, 10/100M Ethernet transceiver and a high-speed serial port within a compact RJ45 package. The SerialPort E20 also includes an embedded web server which can be used to remotely configure, monitor or trouble-shoot the attached device. By simply adding an SerialPort E20 unit to a product design, manufacturers can rationalise their design cycle and speed up "Time-To-Market" with very low risk and costs.

Building Intelligent Devices

With the SerialPort E20 you can embed intelligence into any electronic product for applications such as:

- Remote diagnostics and upgrades
- Asset tracking and replenishment
- Automation and control
- Power management
- Remote collaboration
- Personalized content delivery

SerialPort E20:

- MIPS MCU with 2MB Flash and 128KB RAM
- Use FreeRTOS Operation System
- Support TCP/IP/Telnet/Modbus TCP Protocol
- Support Serial To 10/100M Ethernet Conversion, Serial Speed Upto 921600 bps
- Support 10/100M Ethernet Auto-Negotiation
- Support Easy Configuration through a WebInterface
- Support Security Protocol such as TLS/AES/DES3
- Support Web OTA Wireless Upgrade
- Single +3.3V Power Supply
- Size: 50 x 23 x 11 mm (L x W x H)
- CE Certificated

Features and Specifications

> System Information

- Processor/Frequency: Cortex-M3/96MHz
- Flash/SDRAM: 2MB/128KB
- Operating System: FreeRTOS

> Ethernet Port

- Port Number: 1 RJ45 with LED
- Interface Standard: 10/100 Base-T Auto-Negotiation
- Protection: 2KV Isolation
- Transformer: Integrated
- Network Protocol: IP, TCP, UDP, DHCP, DNS, HTTP Server/Client, ARP, BOOTP, AutolP, ICMP, Web socket, Telnet, FTP, TFTP, uPNP, NTP, SNMP, Modbus TCP
- Security Protocol: TLS, AES 128Bit, DES3
- IPV6 Support: No

> Serial Port

- Port Number: 1 + 1 debug
- Interface Standard: 3.3V TTL: 2 wire (TX,RX)
- Data Bits: 5,6,7,8
- Stop Bit: 1,2
- Check Bit: None,Even,Odd,Space,Mark
- Baud Rate: TTL: 600 bps~921600 bps
- Flow Control: No Flow control
Hardware RTS/CTS, DSR/DTR
Software Xon/ Xoff flow control

> Software

- Web Pages: Http Web Configuration
Customization of HTTP Web Pages
- Log: Remote Realtime Log,
- Configuration: Web
CLI
XML import
Telnet
IOTService PC Software
UART Fast Config
- Firmware Upgrade: Web

> Basic Parameter

- Size: 50x23x11mm
- Operating Temp. : -45 ~ 85°C
- Storage Temp. : -45 ~ 105°C, 5 ~ 95% RH
(no condensation)
- Input Voltage: 3.3V
- Working Current: ~100mA
- Power: <400mW



For more information and ordering, refer to your regional website or call your regional office



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