

# Serial to Ethernet Adaptor

- EAD is a protocol converter which transmits the serial Data sent by the Equipment as TCP packets to the LAN/Network and converts back to TCP/IP data received from the LAN/ Network as Serial Data to the equipment . EAD also supports UDP Protocol for Broadcast application.
- EAD-01 is a low cost, High performance, Serial RS-232 / RS-485 / RS-422 to Ethernet LAN 10/100 Mbps connectivity system using the TCP / IP protocol and is based on ARM Cortex M4 high speed 32-Bit Microprocessor. EAD-01 has built in web server for configuration.



## Features & Specifications

| Serial Interface     |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Interface            | RS 232 , RS 485/RS422                                                             |
| Connector            | 9 Pin Male D-Type for RS232,RS-485 & RS-422                                       |
| Baud Rate            | 300 to 115200 bps                                                                 |
| Data Bits            | 7 or 8                                                                            |
| Parity               | Odd, Even and No Parity                                                           |
| Stop Bits            | 1 or 2                                                                            |
| Flow Control         | None , XON/XOFF                                                                   |
| Network Interface    |                                                                                   |
| Interface            | Ethernet 10 Base-T or 100 Base-TX Connector                                       |
| Connectors           | RJ 45 Female                                                                      |
| Protocols            | TCP,UDP,ARP,ICMP,MAC,TELNET,DHCP & HTTP. SNMP & MODBUS (Optional)                 |
| Indicators (LED)     |                                                                                   |
| Red                  | Power ON                                                                          |
| Yellow               | Connection Status                                                                 |
| Green                | Transmit Data from Serial                                                         |
| Yellow               | Receive Data to Serial                                                            |
| Processor            |                                                                                   |
| CPU                  | ARM Cortex M4                                                                     |
| Memory               | 1MB                                                                               |
| Power                |                                                                                   |
| Input                | 5 to 24V DC                                                                       |
| RS 485/422           |                                                                                   |
| Maximum No of nodes  | 32                                                                                |
| Maximum cable length | 1200m                                                                             |
| Isolation            | >2500                                                                             |
| Environmental        |                                                                                   |
| Operating            | 0 °C to 65 °C                                                                     |
| Storage              | 0 °C to 75 °C                                                                     |
| Packaging            |                                                                                   |
| Dimensions (LxWxH)   | 89mm(L)x93mm(W)x25mm(H) for Box Product / 79mm(L)x50mm(W)x18mm(H) for Board level |
| Weight               | 200g (Box Level) , 30g (Board Level)                                              |
| Warranty             | 12 Month for Box Product, 6 Months for Board level Product                        |

## Sparr Electronics Limited

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Phone : +91-9900477055, +91-80-41278033 For more details visit: <https://www.sparrl.com>

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## Applications

- Access Management in Hospitality Industry.
- Attendance reader & access control system.
- Barcode readers & printers.
- Building Automation & control. Applications
- Card verification kiosks.
- CNC machine control.
- Industrial Automation.
- Moving digital display board and video projector.
- Remote management.
- Patient monitoring.



Add suffix

- |        |                                     |
|--------|-------------------------------------|
| • B    | For Board level Product             |
| • PB   | For Product Enclosed in Plastic Box |
| • MB   | Product Enclosed in Metal Box       |
| • 485  | For RS-485/ RS-422 Option           |
| • TTL  | For TTL level UART                  |
| • MDB  | For MODBUS Support                  |
| • SNMP | For SNMP Support                    |

| Part Number | Model      | Deliverables             |
|-------------|------------|--------------------------|
| 1106004163  | EAD-01-103 | Unit With 12V DC Adaptor |

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