



Leaders in Wireless Data

RFInnovations

Ethernet Serial Module

The RFI-ESM enables Ethernet communication over a wide area data radio network.

The module transparently transfers all protocols at the Ethernet MAC layer including FTP and industry standard TCP/IP Modbus and DNP protocols.

Features

IEEE 802.3 MAC layer operation for simple deployment Transparently transfers all protocols above Ethernet 10/100 BaseT Ethernet LED and software diagnostics

Ethernet Bridge Application

The RFI-ESM is suited for applications in Utilities, Mining, Agriculture and Transport industries where reliable wide area Ethernet data transfer is critical.

The module can be used in small and large scale telemetry systems offering the convenience of Ethernet and the wide area coverage of traditional telemetry systems

The RFI-ESM transparently moves data from end-to-end at speeds of up to 115 kbps and when used with RF Innovations data radio modems can transport Ethernet data up to 50 km*.

Serial Device Server Application

The RFI-ESM can also be used as a serial device server to provide an RS232 interface on a TCP/IP port. This effectively allows connection of RS232 devices onto an Ethernet network. When used with RF Innovations radios existing Ethernet infrastructure can be utilized as a backbone to provide connectivity to remote RS232 devices.

*Maximum practical point-to-point distance with line of sight and suitable antennas.

Specifications

Plug and Play No configuration required for common applications Filtering Configurable packet filtering on source or destination address or Ethernet packet filtering on source or destination address or Ethernet packet filtering MAC Address Forwarding Effectively connect two LAN segments regardless of network layer protocol addressing Auto MDIX The module will automatically detect if the Ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for a crossover of the ethernet data signals are backwar and properly match the connected device without the need for		
Filtering Configurable packet filtering on source or destination address or Ethernet packet filtering on source or destination address or Ethernet packet filtering MAC Address Forwarding Effectively connect two LAN segments regardless of network layer protocol addressing Auto MDIX The module will automatically detect if the Ethernet data signals are backwar and properly match the connected device without the need for a crossover of the Built for industrial applications where environmental conditions are more set than commercial grade equipment	Wireless Ready	Designed specifically for use with RF Innovations wireless wide-area networks
MAC Address Forwarding Effectively connect two LAN segments regardless of network layer protocol addressing Auto MDIX The module will automatically detect if the Ethernet data signals are backwa and properly match the connected device without the need for a crossover of the Built for industrial applications where environmental conditions are more seven than commercial grade equipment	Plug and Play	No configuration required for common applications
Auto MDIX The module will automatically detect if the Ethernet data signals are backwa and properly match the connected device without the need for a crossover of Industrial Grade Built for industrial applications where environmental conditions are more set than commercial grade equipment	Filtering	Configurable packet filtering on source or destination address or Ethernet packet type to reduce the bandwidth used for unnecessary traffic
Industrial Grade Built for industrial applications where environmental conditions are more seven than commercial grade equipment	MAC Address Forwarding	Effectively connect two LAN segments regardless of network layer protocol and IP addressing
than commercial grade equipment	Auto MDIX	The module will automatically detect if the Ethernet data signals are backwards and properly match the connected device without the need for a crossover cable
Traffic Statistics Ethernet traffic statistics for quantifing data passing through the unit	Industrial Grade	Built for industrial applications where environmental conditions are more severe than commercial grade equipment
	Traffic Statistics	Ethernet traffic statistics for quantifing data passing through the unit

PHYSICAL

Dimensions: 94mm x 80mm x 26mm

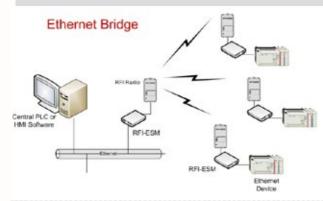
Weight: 100g Construction: Powder coated aluminum chasis and cover

WAN

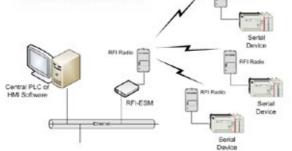
Serial Data: RS-232 Asynchronous with handshaking Interface Speed: 300bps to 115200bps software selectable

LAN

Ethernet: 10BaseT or 100BaseT auto detect Mode: Half duplex or Full duplex auto detect



Serial Device Server

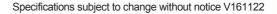


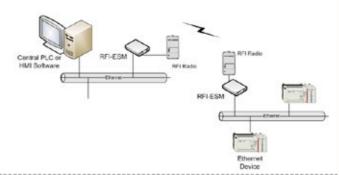
RFI Rade

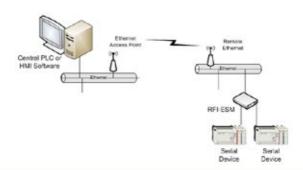
GENERAL

Operating Voltage: 8V to 36V DC (negative ground) Operating Current: 45mA @12 VDC nominal Operating Humidity: Up to 95% non-condensing relative humidity Operating Temperature: -10 to +60°C

CONNECTORS LAN: RJ45 socket WAN: Custom DB15 connector Power: Phoenix PH1176508 (mating connector supplied)









www.esis.com.au Ph 02 9481 7420 Fax 02 9481 7267 esis.enq@esis.com.au

