The xPRESS PoE module allows UHF RFID Sensor Hub designers to include a LAN interface for exchanging information with a host or client. This module may also be used for powering the sensor hub via this interface. This module allows the reader to take on the role of UDP Client, TCP Server, TCP Client or HTTP Client for purposes of transmitting tag and sensor data to a network-attached device. The xPRESS software includes a configuration file that allows quick definition of PoE module attributes without having to learn the driver’s API interface.

**Physical**
- **Dimensions**: 2.6 L x 1.9 W x 0.7 D (6.5 cm x 4.9 cm x 1.8 cm)
- **LAN Interface**: RJ45 jack
- **Power and Control Interface**: Hirose DF9 series socket, 51 contact connector (Uses connector labeled “COMM BUS” on xPRESS board)
- **LED Indicators**: • LAN active • Link active • PoE power available to xPRESS board
  (Jumper on xPRESS board selects whether it is powered by this module or not)
- **Material Compliance**: RoHS compliant

**Environmental**
- **Temperature**: -20 to +60°C operating
- **ESD**: • +/- 1.5kV operating • +/- 2kV non-operating

**Power**
- **Power over Ethernet standards Conformance**: • 802.3af Class 0 • 802.3at, Type 1, Class 0
- **DC Power Required from xPRESS board (when module not powered by LAN interface)**:
  - 132 mA @ 3.3V typical when active
  - 13 mA typical in power-down mode
  (Power down mode is enabled by software interface)
- **DC Power Available to xPRESS board (when module powered by LAN interface)**: 5V @ 2.2 A max
- **Maximum Power consumption by LAN port (PoE) interface**: 12.95 W

**LAN Protocol Support**
- **Ethernet Protocol**: 10BaseT/100BaseTX with auto negotiation, full or half-duplex
- **RJ45 Physical Interface**: NIC MDI (no Auto MDI-X)
- **IP Protocols Supported**: TCP, UDP, ICMP, IPv4, ARP, IGMP, PPPoE
- **Number of simultaneous Sockets supported**: Eight

**IP Options Supported**
- **IP, Gateway, and Name Server Assignment**: Static or DHCP
- **IP Role**: • UDP Client • TCP Server • TCP Client • HTTP Client

**Regulatory Conformance Screening**
- **Radiated Emissions - FCC**: CFR 47 FCC Part 15 Subpart B Class A emissions requirements
- **Radiated Emissions - Canada**: ICES-003 Issue 5 Class A Digital Apparatus emissions requirements

**Ordering Information**
- **XP-PoE**: xPRESS plug-in POE interface module (optional)
Develop
Create RFID-enabled solutions using industry-standard tools

Deploy
Enable rapid deployment and reliable operation of RFID solutions within a wide variety of new and existing environments

Optimize
Maximize productivity, improve ROI and lower operating costs

For more information, visit www.thingmagic.com

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