



## Features and Specifications

### Serial Interface

- 2 Serial ports: 1 RS232, 1 RS422/485 (4-wire/2-wire) with terminal block connection
- Baud rate selectable from 300 to 230 Kbps
- Customizable baud rate support for non-standard serial speeds
- LED indicators for TXD and RXD activities

### Serial Line Formats

- Characters: 7 or 8 data bits
- Stop bits: 1 or 2
- Parity: odd, even, none

### Flow Control

- Hardware: RTS/CTS
- Software: XON/XOFF

### Modem Control

- CTS, RTS, DTR, DCD on Serial 1

### Digital I/O

- 2 Independently configurable digital I/Os, configured via GUI set-up Menu
- Opto-isolated to eliminate grounding issues
- Logically compatible with 3.3V level and also higher voltage levels
- Transient voltage and polarity reversal protection built in

### Relay

- Contacts are capable of handling up to 8A resistive load
- Contacts are mechanically isolated to eliminate grounding issues
- Contacts are non-latching with Normally Open (NO) or Normally Closed (NC) for simple application such as power failure indication

### Network Interface

- 1 RJ45 Ethernet port
- 10Base-T/100Base-TX
- Full or half duplex
- Auto-negotiating or hard coded

### LED Indicators

- 10Base-T and 100Base-TX Link
- Ethernet Activity
- Serial Transmit Data
- Serial Receive Data
- Power / Status

### Management

- Internal web server
- SNMP v2C (MIB-II, RS232MIB)
- Serial login
- Telnet/SSH login
- XML
- DeviceInstaller software

### Power

- Removable screw terminal block connector
- 9-30 VDC or 9-24 VAC with chassis ground
- 2.3W

### Environmental

- Temperature: -40°C to 75°C (-40° to 167°F) Operating
- Temperature: -40°C to 85°C (-40° to 185°F) Storage
- Humidity: 10% to 90% relative humidity, noncondensing

### Agency Approvals

- UL, CSA, FCC, CE, TUV, CTick, VCCI, FM Class 1, Div. 2

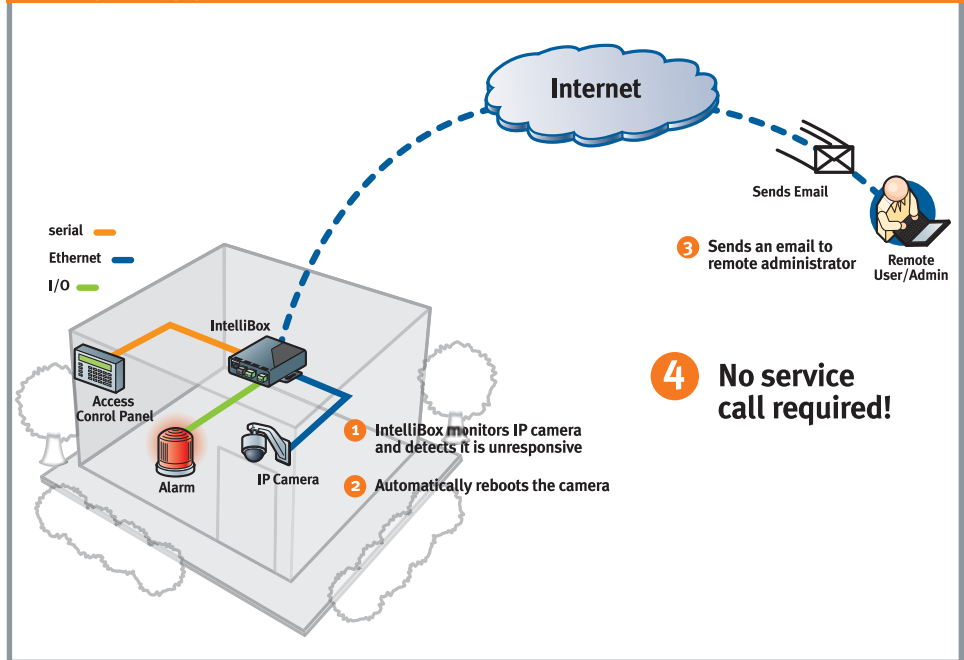
### Protocols Supported

- ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, Auto IP, SMTP, FTP, DNS, Traceroute, HTTP

### Industrial Application Protocols

- Modbus TCP, Modbus ASCII/RTU

## Sample Application



### CPU

- Lantronix DSTNI-EX 120 MHz clock, 256 KB SRAM, 16 KB Boot ROM Internal CPU Memory

### Memory

- 4 MB Flash
- 2 MB SRAM

### EEPROM

- 64 Kbits

### Reset

- Recessed push button

### Packaging

- Case: metal enclosure with wall mounts
- IP30 enclosure rating
- Dimensions: (L x W x H): 115 x 109 x 23 mm (4.54 x 4.30 x .90 in), terminal blocks included
- Weight: 0.3 kg (0.63 lb) (10 oz)

### Shipping Dimensions (L x W x H)

- 254 x 216 x 70 mm (10 x 8.5 x 2.75 in.)

### Warranty

- 2-year limited warranty

### Isolation

- 1.5 KVAC / 2.1 KVDC galvanic isolation between power input port and Ethernet port (except chassis ground)
- 1.5 KVAC / 2.1 KVDC galvanic isolation between power input port and serial ports
- 1.5 KVAC / 2.1 KVDC galvanic isolation between Ethernet port and serial ports
- 1.5 KVAC / 2.1 KVDC opto-isolation between digital I/O ports and all other ports
- 1.5 KVAC / 2.1 KVDC mechanical isolation between Relay contacts and all other ports
- 8 KV direct contact, 15 KV air discharge, ESD protection on all serial ports (IEC 1000-4-2, IEC 61000-4-2)
- 40 A (5/50 ns) EFT protection (IEC 61000-4-4), 12 A (8/20 us) lightning protection (IEC 61000-4-5) on Ethernet port
- Transient voltage protection and ESD at power input with max non-repetitive surge current 800 A (8/20 us) (IEC 61000-4-2)
- Transient voltage protection and ESD with max non-repetitive surge power 600W peak (10/1000 us) at digital I/O ports

## Ordering Information

### Part Number

IBIO21002-01

### Description

IntelliBox-I/O 2100, 2 port IA device and I/O server with EventTrak, worldwide power supply with regional adapters.

# LANTRONIX®

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