



INFINET II

Infilink 200 Communications Unit

The Andover Infinet II (i2) Infilink 200 is an electronic repeater and a 5-port active hub for Andover's Infinet field bus, designed to transmit RS-485 signals beyond the 31-device/4,000-foot (1.2 km) limitation. Andover's Infinet field bus can be comprised of both Andover Infinet and Andover Infinet II controllers.

The i2200 accepts twisted pair cabling at each of its five RS-485 ports. A single Andover Infinet RS-485 input supplies up to four RS-485 output signals, or "spokes." Each spoke has the drive capability of up to 4,000 feet (1.2 km) and up to 57.6K* baud with up to 31 separate devices attached.

For conversion applications, when existing phone lines are in place, the same RS-485 input can become a single RS-232 output for use with third-party short haul modems. (The four RS-485 output ports are still available when using the RS-232 port.) Data transmission speeds for the i2200 are switch-selectable from 300 to 57.6K baud.*

The i2200 simplifies network troubleshooting by using LED indicators. These LEDs flash to indicate when the i2 is receiving and transmitting RS-232 and RS-485 signals.

ENCLOSURE

The i2200 is provided with a hinged, black 16-gauge, cold-rolled steel enclosure. Installation is simplified by the use of detachable connectors for all RS-485 ports.

AC AND DC MODELS AVAILABLE

The i2200 is available in two models: The AC model is powered from a standard 115/230 VAC source. A 24 VDC model is also available for applications where battery-backed operation is required.

* Note: Only data rates up to 19.2K baud are presently supported on the Andover Infinet network.

- Five-Port Active Hub for Andover Infinet Field Bus
- Extends RS-485 Field Bus Communications Beyond the 31 Device/4,000 Feet (1.2 km) Standard Limitation
- AC and DC Models Available
- RS-485 to RS-232 Conversion for Short-Haul Modems
- Detachable RS-485 Connectors Provide Easy Installation
- Switch Selectable Baud Rates, from 300 to 57.6K Baud
- AC Input Voltage Switch- Selectable
- Full LED Indication for Easy Troubleshooting

SPECIFICATIONS

Infilink 200 Communications Unit

ELECTRICAL

Power:

115/230 VAC, 50/60 Hz, switch-selectable, or 24 VDC

Power Consumption:

6 VA for AC model; 1.8 W for DC model

Overload Protection:

Fused with 2 A fuse. MOV protected.

MECHANICAL

Operating Environment:

32–120°F (0–49°C), 10–95% RH (non-condensing)

Size:

6.92"H x 6.100"W x 1.960"D
(176H x 155W x 50D)mm

Weight:

2.74 lbs. (1.24 kg)

Enclosure Type:

NEMA 1-style 16-GA, C.R.S. enclosure, flammability rating of UL94-5V, IP 20

COMMUNICATIONS

Communications Speed:

9600 to 76.8K bps, switch-selectable

Propagation Delay:

RS-485 to fiber port = 0.5 μs max. (not including media delay)

Fiber port to fiber port = 0.5 μs max. (not including media delay)

Bus Length:

RS-485 not to exceed 4000' (1.2 km).
Fiber run not to exceed 12 dB fiber loss including connectors. Note: When connected in series, the maximum propagation delay from farthest node to farthest node (including media propagation delay) must not exceed 140μs

Bus Media:

BACnet: twisted, shielded pair, approved, low capacitance cable

Fiber Optic: 62.5/125 duplex glass fiber optic cable

Pin Assignments for RS-485 to RS-232 Signal:

Pin 1: Chassis Ground
Pin 2: Transmit Data
Pin 3: Receive Data
Pin 4: RTS always high (9V)
Pin 7: Signal Ground
Pin 9: 9V/(1) 5k W
Pin 10: 9V/(1) 5k W
Pin 20: DTR always high

CONNECTIONS

Power:

AC: Three-position barrier strip
DC: Three-position fixed terminal block

RS-485 Ports:

Removable two-piece terminal strips

Fiber Optic:

Two pairs of fiber optic transceiver interfaces (ST)

USER LEDS/SWITCHES

Status Indicator LEDS:

POWER	Power is ON
TEST	Test Mode
Fiber Optic	
PORT 1-2 TDs	Transmit Data
Fiber Optic	
PORT 1-2 RDs	Receive Data
RS-485 COMM TD	Transmit Data
RS-485 COMM RD	Receive Data

Switches:

Test
Baud Rate

AGENCY LISTINGS

UL/CUL 916, FCC CFR47 part 15, ICES-003, EN55022, AS/NZS 3548, VCCI Class A, CE

OPTIONS

AC or DC Power
DIN Rail Kit (P/N:DIN-MTG-KIT)

<u>Part Number</u>	<u>Description</u>
B-LINK-AC	B-LINK, AC
B-LINK-AC-OP	B-LINK-AC, OPEN CLASS
B-LINK-AC-S	B-LINK, AC, SMK
B-LINK-DC	B-LINK-DC
B-LINK-DC-OP	B-LINK, DC, OPEN CLASS
B-LINK-DC-S	B-LINK, DC, SMK
B-LINK-F-AC	B-LINK, AC, FIBER
B-LINK-F-AC-S	B-LINK, AC, FIBER, SMK
B-LINK-F-DC	B-LINK, DC, FIBER
B-LINK-F-DC-S	B-LINK, DC, FIBER, SMK

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