



INFINET II

Infilink 210 Communications Unit

The Andover Infinet II (i2) Infilink 210 is a fiber optic repeater designed specifically to extend the Andover Infinet field bus with the noise immune media of fiber optics. The Andover Infinet field bus can be comprised of both Andover Infinet and Andover Infinet II controllers.

With one RS-485 port and two duplex fiber ports, the i2210 allows point-to-point chaining or stacking for use in hub applications. Using two i2210s with fiber, you can connect the Andover Infinet directly between two buildings without the worry of electrical noise interference. Data transmission speeds for the i2210 are switch-selectable from 300 to 57.6K baud.*

The i2210 simplifies network troubleshooting by using LED indicators. These LEDs flash to indicate the data transmittal status of the fiber optics and Andover Infinet ports.

ENCLOSURE

The i2210 is provided with a hinged, black 16-gauge, cold-rolled steel enclosure. Installation is simple using the detachable two-piece screw terminals on the RS-485 port and the built-in "ST"-style connectors on the fiber optics ports. An optional DIN rail mounting kit allows the enclosure to be mounted on a standard DIN rail.

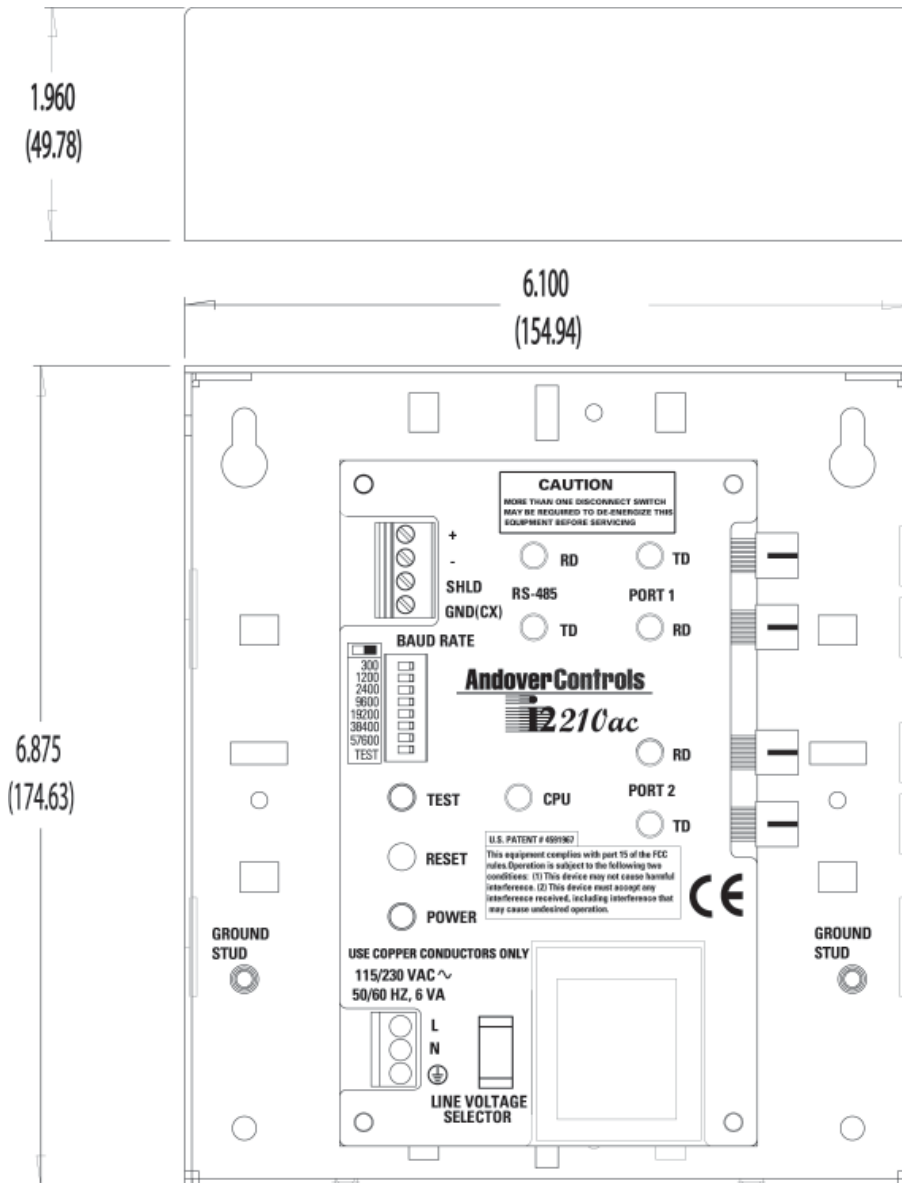
AC AND DC MODELS AVAILABLE

The i2210 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.

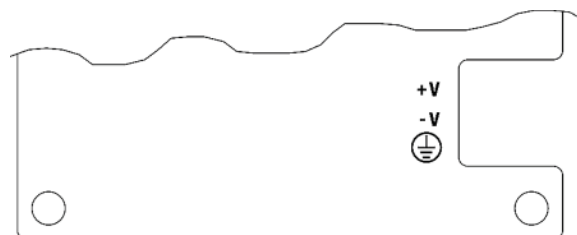
- RS-485 to Fiber Optic Conversion Provides Noise-Free Communications
- Dual Fiber Optic Ports for Daisy Chain Configuration
- AC and DC Models Available
- Detachable RS-485 Connectors Provide Easy Installation
- Switch Selectable Baud Rates, from 300 to 57.6K Baud
- AC Input Voltage Switch- Selectable
- Full LED Indication for Easy Troubleshooting

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

Infilink 210 Communications Unit



i2 Infilink 210 Dimensional Drawing with AC Power



Optional DC Power Layout

SPECIFICATIONS

Infilink 210 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 μ s max.
(not including media delay)

Fiber port to fiber port = 0.5 μ s 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 140 μ s

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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