

		Sii	ngle-line
		ADTX	500 Models
Network Type:	Part:	Description:	Cable:
HSSI	HR33 ¹	Network repeater	Belden #9271
LAN-B	LAN-B/DB9 ²	LAN-B w/DB9 connector	Belden #9271
LAN-B	LAN-B/TEL3	LAN-B w/Telco connector	Belden #9271
Modem	A-1542	External modem	0A-1139-0047
PC-driven (any	Audition Cable	Connects PC-to-6500	0A-1139-0024
6500 network)	RS232 booster⁴	Amplifier; PC-to-6500	

HSSI* Remote Echo Display Network with an ADT6500 and ADT1500s

The HSSI network is used when all displays must simultaneously run the same message. Individual addressability isn't supported. Follow the HSSI NETWORK DIAGRAMS (Option 1,2 or 3) on the attached set of drawings. Use Belden #9271 shielded, twisted pair cable, or if plenum (Teflon) cable is required, used Belden #89207.

*High Speed Serial Interface (U.S. patent #4551720).

Local Area Network (LAN-B) with ADTx500 Addressable Displays

This is a bi-directional network that uses an ADT6500 or ADT4500 at the "head end" to communicate with the other ADT6500 or ADT3500 displays. Each display requires a LAN-B network connector: use **LAN-B / DB9** for ADT6500s / 4500s, and **LAN-B / Telco** for ADT3500s. LAN-B networks are generally recommended when all the displays are in one building, and he interconnecting cable is already available or easy to run. Follow the attached **LAN-B NETWORK DIAGRAMS**.

Modem-based Network with ADTx500 Addressable Displays

This also is a bi-directional network that uses an ADT6500 at the "head end" with an external modem to communicate with ADT6500s, or ADT4500/3500s with external, direct dial-up modems. Each display's modem must have its own direct phone line – the incoming messages can't be handled through a switchboard. Modembased display networks are used when messages need to be sent to other buildings, or when hardwired cabling is expensive, impractical or impossible to install within a location. Follow the attached MODEM-BASED NETWORK DIAGRAMS.





LAN-B NETWORK DIAGRAM FOR ADTx500 DISPLAYS

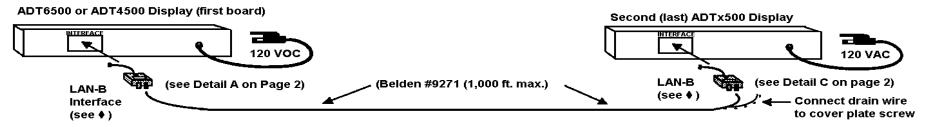
The LAN-B bi-directional network is used in applications where an ADT6500 or ADT4500 will be used to transmit messages to other ADTx500s.

NOTE: the ADT3500 model can only receive messages or relay messages to other ADTx500 displays. It cannot initiate a message transmission.

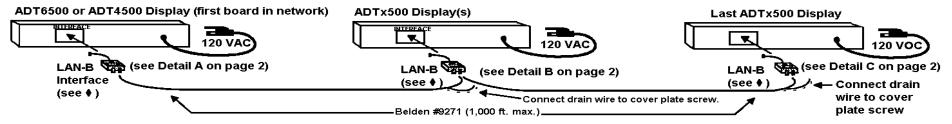
IMPORTANT: Each LAN-B interface box has a "BIAS" switch. One and ONLY ONE of the LAN-B boxes (usually the one connected to the first display in the network) must have its BIAS switch set to the ON position. All the other LAN-B interface boxes must have their BIAS switches set to the OFF position. The ADTx500 display network will not operate correctly If these BIAS switches are not set as described and illustrated here. Also, 120 Ohm terminating resistors must be installed at the first and last displays in the net work.

- For ADT6500 or ADT4500 displays, use interface box **LAN-B/DB9**, which has a DB9 (9-pin) connector. For ADT3500 displays, use **LAN-B/TEL**, which as a DB9 with an RJ-45 Telco (phone plug-style) adapter. Use Belden #9271 shielded, twisted pair wiring (or equivalent) for the network run. Be sure to connect one and only one end of each Belden #9271 section's drain (shield) wire to an earth ground (a screw on the display, for example).
- ❖ If you are using ADT3500 displays in your network, make sure each display's #2 DIP switch (located under the INTERFACE MODULE cover plate) is set to the ON position. Refer to the ADT3500 DIP switch setting instructions and diagram on the following page.

FOR TWO ADTx500 ADDRESSABLE DISPLAYS

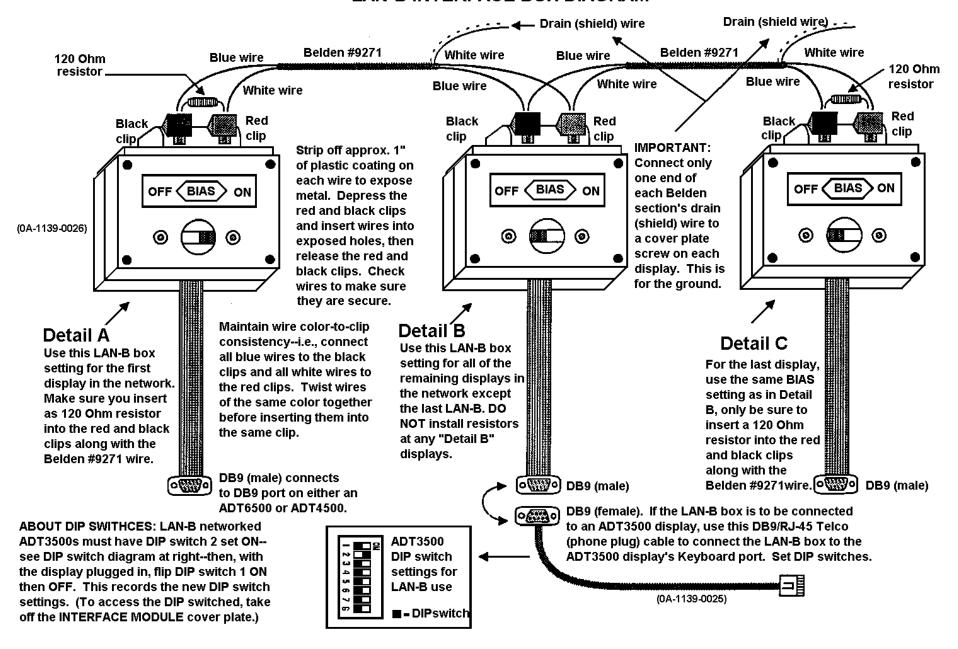


FOR MULTIPLE ADTx500 ADDRESSABLE DISPLAYS



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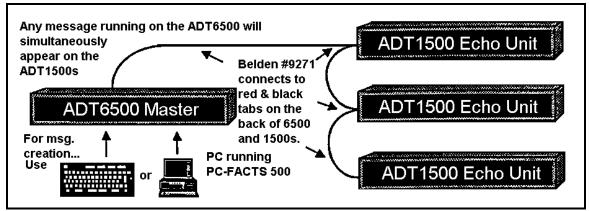
LAN-B INTERFACE BOX DIAGRAM



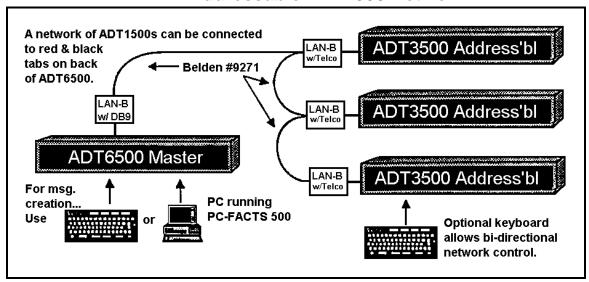
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HSSI Remote Echo ADT1500 Network



LAN-B Addressable ADTx500 Network



Modem-based Addressable ADTx500

