

* Try these other fine ELK products *

M1 Cross Platform Control

- M1 (Std)** Integrates Security, Lighting, Telephone, and Energy Management. Powerful "Rules" based automation capabilities. Up to 208 Zones.
- M1G (Gold)** More powerful version of M1 with more expansion and capabilities.
- M1KP** LCD Keypad, 2 x 16 Character, backlit
- M1XIN** 16 Zone (input) expander. Up to 12 per sys.
- M1XOVR** 16 Output expander. 8 voltage/8 Relays
- M1XOV** 16 Output expander. All low voltage pins
- M1RB** 8 relay board for use w/Ctrl,XOVR, or XOV
- M1DBH** Data Bus wiring hub for multiple homeruns
- M1XEP** Ethernet port expander/interface
- M1XSP** Serial port expander for additional serial ports.

Magic Module Series

- MM220** MagicModule, 2 Input, 2 Output, Programmable
- MM443** MagicModule, 4 Input, 4 Output, Programmable
- MM447** Automation Controller w/Voice, Caddx Interface
- MV480** Recordable Voice Module, 400 Channels
- MK400** Starter Kit, Includes MM443 & MK485
- MK485** Programming Kit, MB485, Cables, Software
- MB485** Data Bus Interface, RS232 to RS485

Rust Free Sirens / Speakers

- 1RT** Speaker & Stainless Steel Enclosure
- 150RT** Siren & Stainless Steel Enclosure

Speakers & Sirens

- 44** Speaker, 30 W, 8 Ohm Compact Horn
- 45** Siren, Compact Horn, 118db
- M120** Siren, Single Tone, 107db, Mini Horn
- SP15** Speaker, 15 watt, Small Horn
- SP30** Speaker, 30 watt, Horn
- SP35** Speaker, 20 watt, Interior
- SP40** Speaker, 40 watt, Horn
- SS15** Siren, Dual Tone, 110db, Horn
- SS30** Siren, Dual Tone, 120db, Horn
- SS36** Siren, Dual Tone, 105db, Interior

ECHO™ Sirens & Speakers

- 73** ECHO Speaker, 20 Watt, Interior
- 74** ECHO Dual Tone Siren, Interior
- 75** ECHO Voice Siren, Interior
- 870** ECHO Speaker, Self Amplified

Siren & Voice Drivers

- 100** High Performance Siren Driver
- 110** Voice Siren Driver, English & Spanish
- 120** Recordable Voice Module and Siren
- 124** Recordable Voice Module, 4 Channels

Surge Suppressors

- 950** Surge Suppressor, Phone & Power Line
- 951** Surge Suppressor, Phone - Single Line
- 955** Surge Suppressor, Phone - Dual Line

Relay Modules

- 912** Compact Relay, 12 Vdc, SPDT
- 912B** Heavy Duty Compact Relay, 12/24 Vdc, SPDT
- 924** Sensitive Relay, 12/24 Vdc, DPDT
- 941** Alarm Output Director
- 960** Delay Timer Relay, 1 sec. to 60 min.

Power Products

- 1250** Battery, Lead Acid, 12v, 5Ah
- 1280** Battery, Lead Acid, 12v, 8Ah
- P112** 12 Volts DC, 1 Amp Power Supply w/Enclosure
- P124** 24 Volts DC, 800mA Power Supply w/Enclosure
- P1216** 12 Volts DC, 1.5 Amp Power Supply
- P412** 12 Volts DC, 4 Amp Power Supply
- P624** Power Supply & Battery Charger
- PD9** Power Distribution Module
- 965** Low Battery Cutoff and Power Switch
- TRG1640** Transformer, 16.5VAC @ 40 VA
- TRG2440** Transformer, 24VAC @ 40 VA

Accessories

- 129** Computer Sound Card Interface
- 800** Audio Amplifier, 10 Watts
- 900-2** "B" Connectors, Unfilled, 500 pcs
- 902-2** "B" Connectors, Gel filled, 500 pcs
- 980** Telephone Line Fault Monitor
- 999** Double Sided Tape
- SL1** Strobe Light, 4 colors available
- WK1** Wall Mount Kit for SL1 Strobes

For more information contact your local Distributor or:
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Magic Module Series

Link Interface To Caddx NX Controls ELK-ML8

APPLICATION:

The Link Interface (ELK-ML8) acts as a bridge between the data bus of a Caddx NX Control and a Magic Module (ELK-MM443). It allows shared use of the inputs, outputs, and system status for Lighting, Energy Savings, HVAC, General Automation, and Security applications.



Magic Module Series

ELK-ML8

**Link Interface to
Caddx NX Controls**
Accessory for the ELK Magic Module



FEATURES:

- Fast and Easy Home Control and Automation utilizing existing Security Sensors and System Status from a Caddx NX control¹.
- Simple 2 Wire Hookup to the Control.
- 16 Preset Conditions Mapped and Broadcasted Upon any Change.
- On Demand Interrogation of 240 Conditions.
- Real Time Clock & Calendar Event Functions utilizing the Caddx NX built-in clock.
- Small Size Conveniently Mounts inside Control.
- Lifetime Limited Warranty, call for details.

SPECIFICATIONS:

- Size: 4" x 2.75" (102mm x 70mm).
- Operating Power Derived From the Magic Module Power Source or the Caddx Control.
- Operating Voltage: 9.6-15 Volts D.C.
- Current Required: 30mA.

REQUIRED EQUIPMENT: (not included)

- ELK Magic Module (ELK-MM443).
- ELK Programming Kit (ELK-MK485).

Features and Specifications subject to change without notice.



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Instructions Printed On Inside

The Link Interface (ELK-ML8) connects to the data bus of the Caddx NX Control¹ using only 2 wires. Data received from the control is mapped to 16 collection flags. Changes to these flags are broadcasted over the Magic Module data bus. In addition, 240 bits of data from the Control may be interrogated on demand by the Magic Module. In order to program the 16 collection flags or develop a Home Control or Automation application, a Magic Module Programmers Kit (ELK-MK485) is needed.

INSTALLATION

- Step 1.** Disconnect all power to the Caddx NX Security Control and the ELK Magic Module.
- Step 2.** Mount the Link Interface using the enclosed self adhesive foam tape or two of the special NX enclosure slide rails.
- Step 3.** Connect the Link Interface, Caddx NX Control, and Magic Module as per figure 1 below.

NOTE: Figure 1 shows the Magic Module components powered from the NX Control. Be certain that the maximum combined current draw including any keypads or auxiliary devices does not exceed the ratings published with the control. The Link Interface and one Magic Module draw 55mA idle or 185mA with all relays active. A Magic Voice Module will add an additional 70mA idle and up to 500mA when active with 3/4 volume setting. If you prefer (or need) to power the Magic Module from another source, leave off the Red +V wire from the keypad input to the ML8 and connect another DC power source to either the +12V and Neg terminals or J3 of the Magic Module. The Magic Module power receptacle **J3** accepts a plug-in 12Vdc (center pin positive) power supply such as the ELK-P1216 (sold separately).

- Step 4.** After all wiring connections are complete apply power to the NX Security Control and Magic Module.
- Step 5.** Use the Magic Module "Code Writer" or "Application Writer" software to setup the 16 collection flags and develop the desired operation program. The Software includes a manual and on-line help screens.

- LEDs**
- XMIT = Blinks when information is being transmitted to or received from a Magic Module
 - RCV = Blinks when the NX Control is transmitting information to the Link Interface
 - STATUS = Blinks slowly when the Control Keypad data bus is operational.
 - PWR = On when the Link Interface is receiving Power.

¹ Works with most Caddx NX Controls except "E" series

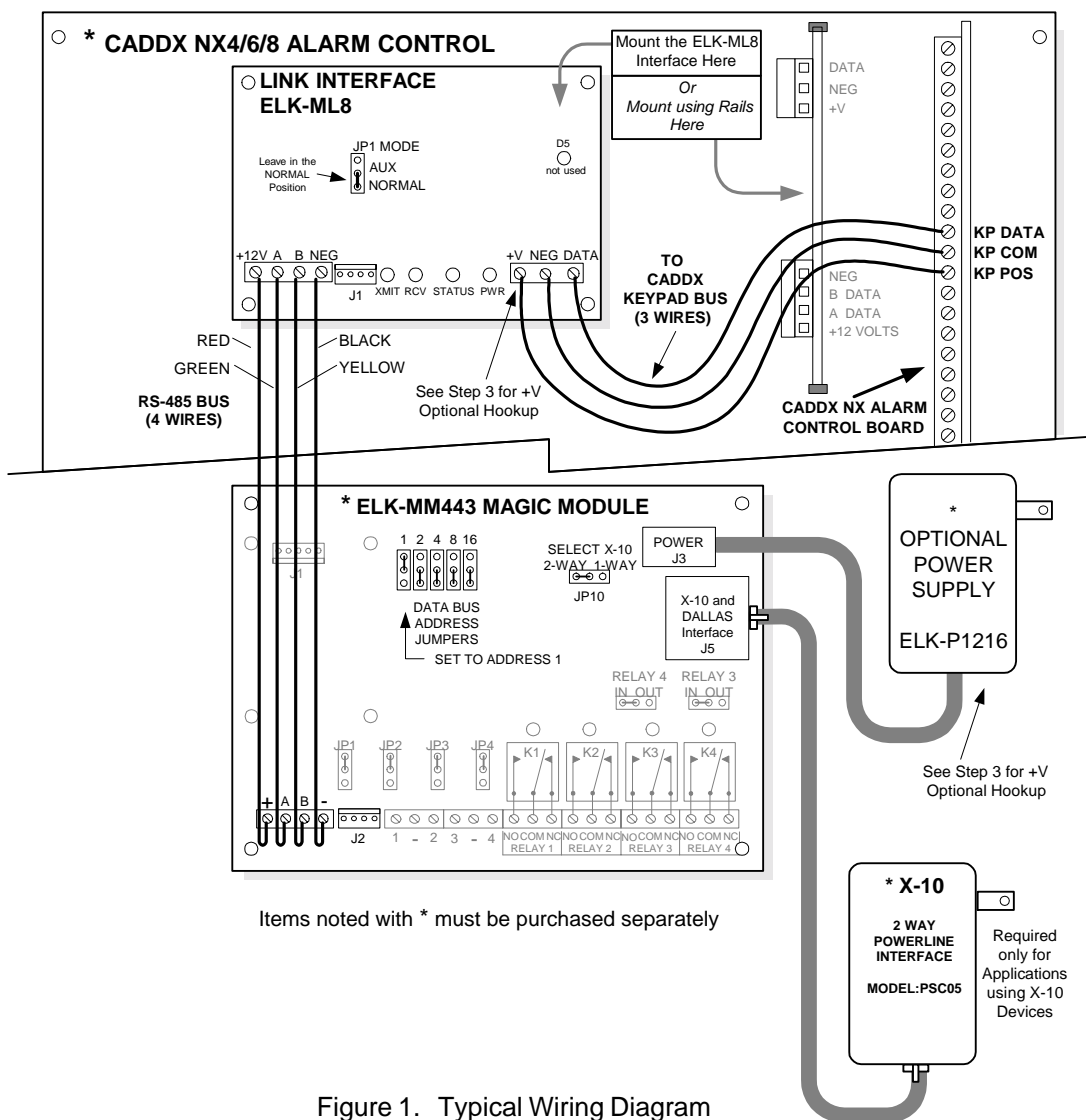


Figure 1. Typical Wiring Diagram