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ERXXX-LXX2

Ver. 1 Rel. 11/21/2022

ELITE PI®

REMOTE CPU BOX

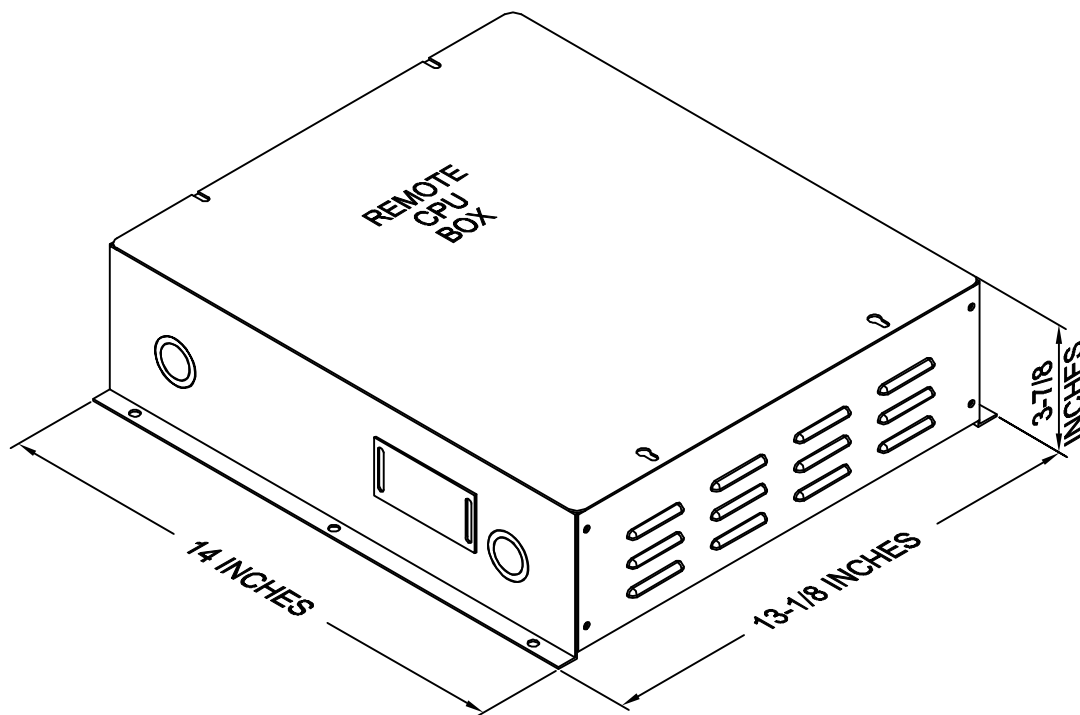
This CPU Box was designed to provide outputs for auxiliary displays that can drive and assist our Elite PI's. This unit can be a solution for elevator cabs that either are having issues with a restricted space or for multi-car capabilities for hallway use. The system can be centrally located up to 25 feet from the screens. One remote CPU can drive up to 2 screens at once.

Typical Applications

- Used for visual signaling of remote LIQUID CRYSTAL DISPLAY (LCD)
- Used on car top and/or hoistway
- Operating Auxiliary screen

Features:

- Live video (optional)
- Self testing
- Elite PI Designer software
- Elite PI Transfer software
- Multi-car capabilities for hallway use
- CPU Box can be up to 25 feet from screen.
- One remote CPU box can support 2 screens
- MICRO COMM serial link input



TO ORDER: - ERXXX - L X X 2

SCREEN SIZE:

"090" = 9.0
"104" = 10.4
"121" = 12.1
"150" = 15.0

SCREEN ORIENTATION:

"H" = HORIZONTAL (Landscape)
"V" = VERTICAL (Portrait)

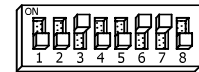
CONFIGURED AT FACTORY

(BACK VIEW)

JOB# _____

S1 DEFAULT SETTINGS

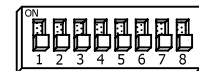
Room	1	2	3	4	5	6	7	8
ON	ON	ON	OFF	ON	ON	OFF	OFF	ON
OFF	OFF	OFF	ON	OFF	OFF	ON	ON	OFF



TEST	AUDIO	BAUD1	BAUD2	TOUT1	TOUT2	A/L	B/N
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S2 DEFAULT SETTINGS

	1	2	3	4	5	6	7	8
ON								
OFF								



1 2 4 8 16 32 64 REAR
MSG ADDRESS

ROTARY SWITCH S3 _____

ROTARY SWITCH S4 _____

ARM CODE VERSION _____

DISPLAY CODE VER _____

OS VERSION _____

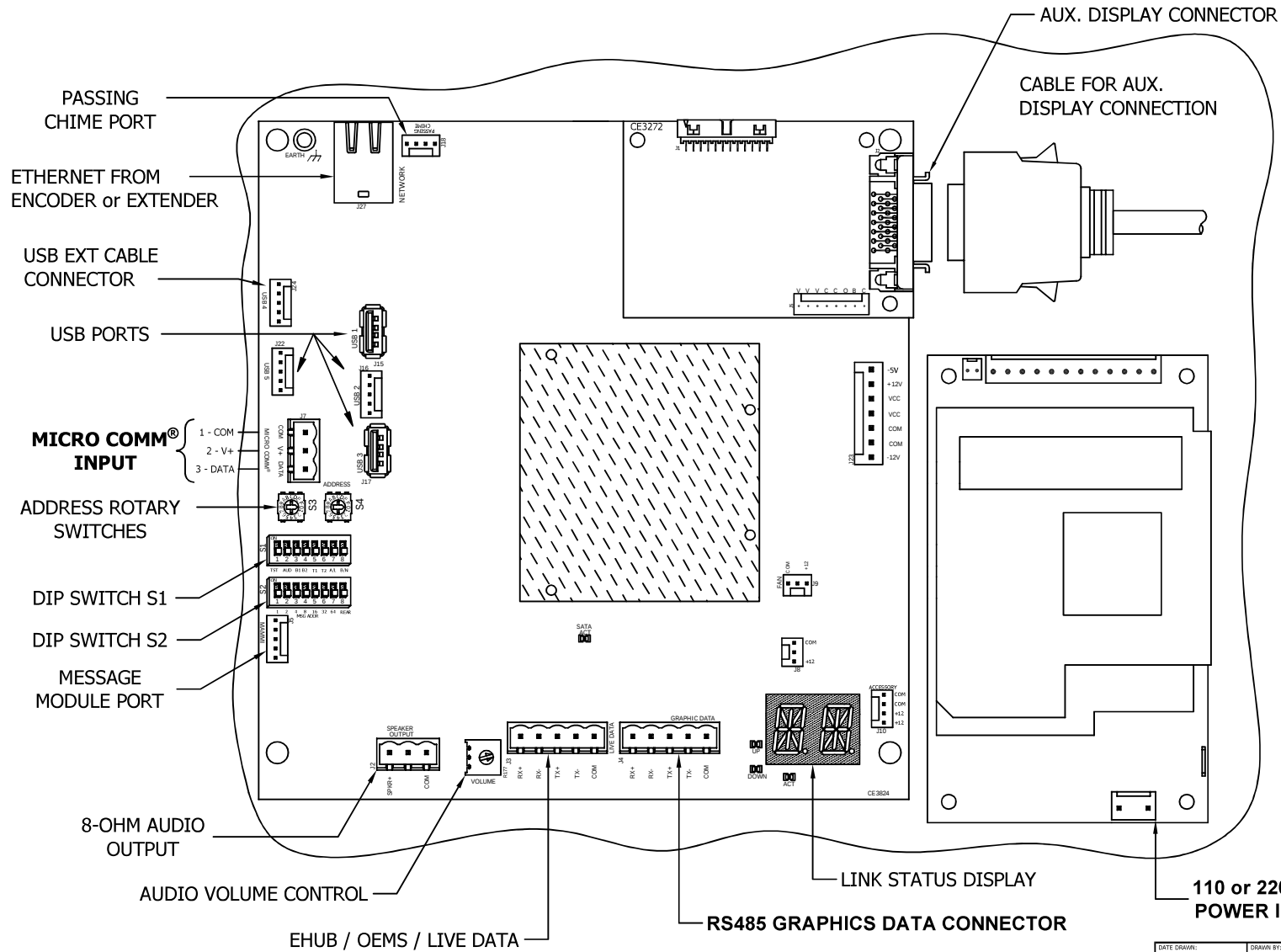
Q7 MODULE _____

BRACKET NO. _____

IP: _____

MASK: _____

**110 or 220 VAC
POWER INPUT**



DATE DRAWN: 02/02/16	DRAWN BY: DAC	REQUESTED BY: TE	 C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43306 (419) 636-6705
BOARD NUMBER: 3824, 3272	LAST DATE REVISED: -	APPROVED BY:	
PRODUCT ELITE PI MAIN - LVDS			DWG. NO. 104TFTBACK 3824
			REV: -

S1 DIP SWITCH SETTINGS

DIP Switch 1 - Test Mode

OFF = Normal Run Mode

ON = The display will cycle up and down through all programmed floors (Front Side Only).

DIP Switch 2 - Audio Output

OFF = Audio Software Controlled

ON = Audio Enabled

DIP Switches 4, 3 - RS485 Configuration Link Baud Rate (Must match Transfer Program)

DS4	DS3	BAUD RATE
OFF	OFF	9600
OFF	ON	19200 (Default)
ON	OFF	38400
ON	ON	57600

DIP Switch 6, 5 - Watchdog Period (Length of time the PIC waits for a response from the display before resetting it)

DS6	DS5	Wait Period
OFF	OFF	One Minute
OFF	ON	Two Minutes
ON	OFF	Three Minutes (Default)
ON	ON	Never Reset Display

DIP Switch 7 - Converter Board Display Mode (does not affect TFT screen)

OFF = Scan Slot Data Displayed

ON = ASCII Data Displayed

NOTE: Left Cube Dot = Priority Message Sent
Right Cube Dot = Door Strobe Active

DIP Switch 8 - Single/Multi-Car

OFF = Single Car - Standard MICRO COMM® Links

ON = Multi-Car - Special 8-to-1 MICRO COMM® Links Only!

ROTARY SWITCH SETTINGS

Rotary Switch S3 - Used for USB transfers. Default setting is 0.

Rotary Switch S4 - Unit Address

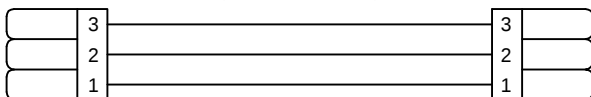
This switch sets the address of the Elite PI® unit.

The default is address 1, which is switch setting 0.

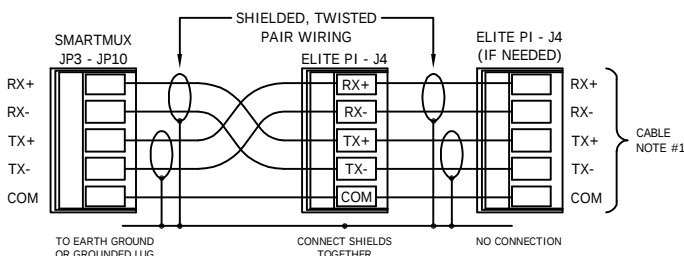
NOTE: This address must match the Transfer program setting.

S4	Unit Addr	S4	Unit Addr	S4	Unit Addr	S4	Unit Addr
0	1	4	5	8	9	C	13
1	2	5	6	9	10	D	14
2	3	6	7	A	11	E	15
3	4	7	8	B	12	F	16

MICRO COMM® LINK (18-GAUGE WIRE)



SMARTMUX to ELITE PI and (if needed) to ELITE PI



NOTE: Shields MUST be grounded to controller/earth ground lug

S2 DIP SWITCH SETTINGS

ARRIVAL ARROWS & DESTINATIONS DS1 - DS7 set the unit's floor number.

DS7 (64)	DS6 (32)	DS5 (16)	DS4 (8)	DS3 (4)	DS2 (2)	DS1 (1)	FLOOR NUMBER
OFF	OFF	OFF	OFF	OFF	OFF	OFF	CAR UNIT
OFF	OFF	OFF	OFF	OFF	OFF	ON	FLOOR 1
OFF	OFF	OFF	OFF	OFF	ON	OFF	FLOOR 2
OFF	OFF	OFF	OFF	OFF	ON	ON	FLOOR 3
ON	ON	ON	ON	ON	ON	ON	FLOOR 125
ON	ON	ON	ON	ON	ON	OFF	FLOOR 126
ON	ON	ON	ON	ON	ON	ON	NOT USED

Switch 8 sets the unit as front or rear. DS8 OFF - Front Unit DS8 ON - Rear Unit

VIDEO TEST MODE

Video test mode uses a combination of DIP switch and rotary switch settings. Please write down the initial setting of the S3 and S4 rotary switches before starting this process.

Entering Video Test Mode

Set DIP switch 1 to OFF, then set S3 and S4 to position F. Next, set DIP switch 1 to ON. The Live Video Adjustment menu will appear on the screen with Brightness highlighted.

Choosing Item to Adjust

The highlighted item is the current selection. To choose a different item to adjust, set S3 as shown below:

S3	Adjustment	S3	Adjustment
F	Brightness	B	Video Standard
E	Contrast	A	Vertical Stretch
D	Color	9	Default
C	Tint	8	Original

Making Adjustments

Highlight the item to change and turn S4 for the best display quality.

Default and Original Settings

Default resets the display to the factory default settings. Original cancels any changes made and restores the values stored before entering Video Test mode. Highlight the item to use, turn S4 in either direction, and wait five seconds. The display will reset to the default or previous settings.

Exiting Video Test Mode

To save the new video settings and exit Video Test, set DIP switch 1 to OFF. Reset S3 and S4 to the values recorded before starting the process.

Video Gain

JP7 and JP6 control the video gain. Use a shunt to short the pins of the jumpers as shown in the table below (OFF = No Shunt, ON = Shunt):

JP7	JP6	VIDEO GAIN
OFF	OFF	No Gain (Default)
OFF	ON	Lowest Gain
ON	OFF	
ON	ON	Highest Gain

Adjusting Audio Volume

If you need audio, connect an 8-ohm speaker to J2 on the Elite PI® board. Set the volume by adjusting Volume pot R2 (3/4 turn pot). Adjust the pot clockwise to increase the volume.

CABLE NOTES:

- 1) Use shielded, twisted pair wires. We recommend using 24-gauge or larger wires. NOTE: Connect shields to controller/earth ground.
- 2) Use one wire of a twisted pair or a separate wire for common.
- 3) The audio input cable should be a shielded, twisted pair cable.
- 4) BNC composite video cable - 75 ohm RG6 recommended.
- 5) Twisted pair video cable - Unshielded twisted-pair wire recommended. Baluns required - C.E.# V23501P02

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BOARD NUMBER: 3824	LAST DATE REVISED: 07/29/21	APPROVED BY:		
PRODUCT CE3824 TFT Setup Information			DWG. NO. CE3824 SETUP	REV. D