

All prices are US dollars and are F.O.B. Pie Town, NM, USA. All products come with documentation and our 2 year warranty.

## Adrienne Electronics Corporation

### INTERNAL USB TIME CODE BOARDS

These boards look like a standard PCIe-TC or AEC-PCIe board from the outside of a PC, but actually connect to the PC via a motherboard USB connector. This is an economical alternative to our most popular PCI-TC, PCIe-TC, and AEC-PCIe board models. Subject to connector limitations and our time, board models may include 0-2 analog LTC readers, 0-2 IRIG-B readers, 0-3 analog LTC generators, an analog video sync input, and various GPIO or relay options. Available brackets are both standard height (by default) and low profile (special request). All boards include a high performance on-board processor, a green-colored external time code status LED, system diagnostics, in-system electronic software updates, plug and play installation (no jumpers), Windows software drivers, full RoHS compliance, and automatic SMPTE/NTSC(30fps), EBU/PAL(25fps), and FILM(24fps) operations. RCA jacks are standard for LTC, and BNC connectors are standard for IRIG and analog video sync. Large order customization may be available. Vintage 2014. The following are in stock. More on the way...

<b>AEC-IUSB-38</b>	Analog LTC reader with 8x TTL GPIO. .... Similar to AEC-IUSB-41, but also has 8x independent GPIO channels, each of which can be GPI or GPO. J1 is LTC input. J2 is GPIO (with 9DS connector).	<b>\$295</b>
<b>AEC-IUSB-41</b>	Analog LTC reader. .... Bi-directional play speed LTC reader with differential LTC input, simultaneous time and user bits, DF/NDF. J1 is LTC input.	<b>\$245</b>
<b>AEC-IUSB-42</b>	Dual Analog LTC Reader. .... Like having two(2) AEC-IUSB-41 boards in one. J1 and J2 are LTC inputs.	<b>\$345</b>

#### OPTIONS:

<b>RCA</b>	Use RCA connectors for LTC inputs and outputs. ....	<b>\$0</b>
<b>BNC</b>	Use BNC connectors for LTC inputs and outputs. ....	<b>\$6 each</b>
<b>XLR3</b>	Use Mini-XLR-3 connectors for LTC inputs and outputs (mating plug included). ....	<b>\$24 each</b>
<b>FULB</b>	Full-Height Bracket (Standard Height). ....	<b>\$0</b>
<b>LOWB</b>	Low-Profile Bracket (in place of Standard Height bracket). ....	<b>\$0</b>

#### ORDERING PROCEDURE:

We have so many configurations and options that it can be confusing for both us and you to keep track of them all. When ordering, please list the model number, then in parenthesis list the LTC connector type and the bracket size. Here are some ordering examples:

AEC-IUSB-41(RCA, FULB) => AEC-IUSB-41 with RCA connector for LTC input, and with full-height bracket.

AEC-IUSB-41(XLR3, LOWB) => AEC-IUSB-41 with XLR3 connector for LTC input, and with low-profile bracket.

Adrienne, AEC, AEC-PCI, AEC-PCIe, PCIeSDV, PCIe-TC, PCIe-LTC, PCIe-VLTC, PCI-TC, PCI-LTC, PCI-VLTC, USB-TC, USB-LTC, USB-IRIG, AEC-IUSB, AEC-XUSB, AEC-BOX, and AEC-μBOX are trademarks of Adrienne Electronics Corporation.

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## Adrienne Electronics Corporation

### TIME CODE BOARDS FOR PCI-EXPRESS-BUS COMPUTERS

Our seventh generation of time code boards, and drop-in replacements for our older PCIe-TC boards. These boards fit into PCI Express x1 through x16 slots, both standard height (by default) and low profile (special request). All boards include a high performance on-board processor, a green-colored external time code status LED, system diagnostics, plug and play installation (no jumpers), Windows software drivers, full RoHS compliance, and automatic SMPTE/NTSC(30fps), EBU/PAL(25fps), and FILM(24fps) operations. Analog video circuitry can synchronize to 13 different video standards, including 720p and 1080i signals having tri-sync pulses. Does not support digital video. RCA connectors are standard for LTC. BNC connectors are standard for IRIG and Video/VITC. Vintage 2017. This product family is still actively evolving, so expect more models in the near future.

<b>AEC-PCIe-41</b>	LTC reader, bi-directional, 1/10x to 80x, simultaneous time and user bits, DF/NDF. ....	<b>\$345</b>
<b>AEC-PCIe-42</b>	Dual LTC reader, bi-directional, 1/10x to 80x, simultaneous time and user bits, DF/NDF. ....	<b>\$445</b>
<b>AEC-PCIe-45</b>	LTC reader/generator. Adds LTC generator and regenerator capabilities to AEC-PCIe-41. .... LTC generator can freerun or synchronize to LTC input, SD analog video, or HD analog video.	<b>\$510</b>
<b>AEC-PCIe-46</b>	LTC/VITC/L21 data reader and LTC generator. .... Combines AEC-PCIe-45 and AEC-PCIe-49, plus has analog VITC-to-LTC translator mode.	<b>\$630</b>
<b>AEC-PCIe-48</b>	LTC reader with analog video sync input. .... Adds SD analog video and HD analog video field and frame interrupt capabilities to AEC-PCIe-41.	<b>\$415</b>
<b>AEC-PCIe-49</b>	LTC/VITC/L21 data reader. Can read LTC, analog (NTSC and PAL) VITC, ..... and NTSC L21 (caption) data simultaneously at PLAY speed. Reads analog VITC at -1x to STILL to +3x, bi-directional. Automatic or programmable VITC line selection.	<b>\$490</b>
<b>PCIe-LTC/RDR</b>	No longer available. Drop-in replacement is AEC-PCIe-41(EMU).	
<b>PCIe-LTC/RDV</b>	No longer available. Drop-in replacement is AEC-PCIe-48(EMU).	
<b>PCIe-LTC/RGA</b>	No longer available. Drop-in replacement is AEC-PCIe-45(EMU).	
<b>PCIe-VLTC/RDA</b>	No longer available. Drop-in replacement is AEC-PCIe-49(EMU).	
<b>PCIe-VLTC/RG2</b>	No longer available. Drop-in replacement is AEC-PCIe-46(EMU).	

#### OPTIONS:

<b>NAT</b>	"Native Mode" (normal AEC-PCIe board operating mode). ....	<b>\$0</b>
<b>EMU</b>	"PCIe-TC Emulation Mode" (behaves exactly like the indicated PCIe-TC board model). ....	<b>\$0</b>
<b>RCA</b>	Use RCA connectors for LTC inputs and outputs. ....	<b>\$0</b>
<b>BNC</b>	Use BNC connectors for LTC inputs and outputs. ....	<b>\$6 each</b>
<b>XLR3</b>	Use Mini-XLR-3 connectors for LTC inputs and outputs (mating plug included). ....	<b>\$24 each</b>
<b>XLR5</b>	Use Mini-XLR-5 connectors for LTC inputs and outputs (mating plug included). ....	<b>\$30 each</b>
<b>FULB</b>	Full-Height Bracket (Standard Height). ....	<b>\$0</b>
<b>LOWB</b>	Low-Profile Bracket (in place of Standard Height bracket). ....	<b>\$0</b>

#### ORDERING PROCEDURE:

We have so many configurations and options that it can be confusing for both us and you to keep track of them all. When ordering, please list the model number, then in parenthesis list the desired software interface, the LTC connector type, and the bracket size. Here are some ordering examples:

AEC-PCIe-41(NAT, RCA, FULB) => AEC-PCIe-41 in native mode, with RCA connector for LTC input, and with full-height bracket.

AEC-PCIe-41(EMU, XLR3, LOWB) => AEC-PCIe-41 in emulation mode, with XLR3 connector for LTC input, and with low-profile bracket.

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### TIME CODE & CAPTION BOARDS FOR CONVENTIONAL PCI-BUS COMPUTERS

Our third generation of time code boards, with optional on-screen time code display and caption (and V-chip) reading capabilities. Our universal design is compatible with both 5.0V and 3.3V PCI buses. All boards include a high performance on-board processor, advanced diagnostics, in-system electronic software updates, plug and play installation (no jumpers), software drivers, full RoHS compliance, full FCC and CE-Mark approval, and automatic SMPTE/NTSC(30fps), EBU/PAL(25fps), and FILM(24fps) operations. RCA jacks are standard for LTC, and BNC connectors are standard for video/VITC. Vintage 2000.

<b>PCI-LTC/RDR</b>	LTC reader, bi-directional, 1/10x to 80x, simultaneous time and user bits, DF/NDF. ....	<b>\$335</b>
	The PCI-bus replacement for our older PC-LTC/IOB and PC-LTC/RDR boards.	
<b>PCI-LTC/GEN</b>	LTC generator. Can sync to video or freerun with very high precision. ....	<b>\$395</b>
<b>PCI-LTC/RG1</b>	LTC reader/generator. Combines PCI-LTC/RDR and PCI-LTC/GEN, plus can sync to LTC. ....	<b>\$500</b>
<b>PCI-VITC/RDR</b>	VITC reader, bi-directional, -1x to STILL to +3x, simultaneous time and user bits, DF/NDF. ....	<b>\$375</b>
	Automatic or programmable VITC line selection.	
<b>PCI-VITC/GEN</b>	VITC generator. Keys VITC over the desired video lines. ....	<b>\$395</b>
<b>PCI-VITC/RG1</b>	VITC reader/generator. Combines PCI-VITC/RDR and PCI-VITC/GEN. ....	<b>\$500</b>
<b>PCI-VLTC/RDR</b>	LTC/VITC reader. Combines all features of PCI-LTC/RDR and PCI-VITC/RDR boards, ....	<b>\$480</b>
	plus automatic or controlled selection of LTC vs. VITC. Reads both simultaneously at PLAY speed.	
<b>PCI-VLTC/GEN</b>	LTC/VITC generator. Generates both LTC and VITC simultaneously, ....	<b>\$500</b>
	and can sync to video or freerun with very high precision.	
<b>PCI-VLTC/RG3</b>	LTC-to-VITC translator, and VITC reader. Similar to PCI-VLTC/RDR, ....	<b>\$610</b>
	plus has VITC generator and LTC-to-VITC translator modes.	
<b>PCI-VLTC/RG2</b>	VITC-to-LTC translator, and LTC reader. Similar to PCI-VLTC/RDR, ....	<b>\$610</b>
	plus has LTC generator and VITC-to-LTC translator modes.	
<b>PCI-VLTC/RG1</b>	LTC/VITC reader/generator/translator. Combines the features of the PCI-LTC/RG1 and PCI-VITC/RG1 boards, .....	<b>\$715</b>
	plus can translate LTC to VITC, VITC to LTC, and regenerate time codes.	
<b>PCI-21/RDR</b>	NTSC Line 21 Data Reader, including closed caption, text, V-chip, clock, and other data services. ....	<b>\$335</b>
<b>PCI-21L/RDR</b>	LTC Reader and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-LTC/RDR. ....	<b>\$410</b>
<b>PCI-21L/RG1</b>	LTC Reader/Generator and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-LTC/RG1. ....	<b>\$535</b>
<b>PCI-21V/RDR</b>	VITC Reader and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VITC/RDR. ....	<b>\$410</b>
<b>PCI-21V/RG1</b>	VITC Reader/Generator and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VITC/RG1. ....	<b>\$535</b>
<b>PCI-21VL/RDR</b>	VITC/LTC Reader and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VLTC/RDR. ....	<b>\$515</b>
<b>PCI-21VL/RG1</b>	VITC/LTC Reader/Generator and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VLTC/RG1. ....	<b>\$750</b>
<b>OPTIONS:</b>		
<b>OSD</b>	On-Screen Display of time code information. Includes software control of character on/off, ....	<b>\$100</b>
	character size, character color, vertical position, horizontal position, and background color.	
<b>SERIAL</b>	RS232/RS422 serial interface, intelligent, with TX/RX buffering. Not COM port compatible. ....	<b>\$80</b>
	Includes transmit on compare match, plus stored string transmission and full BREAK character support.	
<b>RCA</b>	Use RCA connectors for LTC inputs and outputs. ....	<b>\$0</b>
<b>BNC</b>	Use BNC connectors for LTC inputs and outputs. ....	<b>\$6 each</b>
<b>XLR3</b>	Use Mini-XLR-3 connectors for LTC inputs and outputs (mating plug included). ....	<b>\$24 each</b>

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### LEGACY UNIVERSAL SERIAL BUS (USB) PRODUCTS

Welcome to our "USB-TC" family of time code readers for the Universal Serial Bus. These tiny but rugged and nicely styled metal boxes are perfect for laptop and other slot-limited applications, and are both USB 1.1 and 2.0 compliant. They use standard USB cables and hubs, and can thus be combined with all other USB products, including the use of multiple USB-TC products on the same computer. All USB-TC products include a high performance on-board processor, diagnostics, in-system electronic software updates, plug and play installation, Windows software drivers, full RoHS compliance, and full FCC and CE-Mark approval. Each USB-TC product comes with a standard 2-meter USB cable and a test/demo/support CD-ROM (including driver software and a PDF format manual). Large order customization may be available. Vintage 2003.

<b>USB-LTC/RDR</b>	LTC Reader. ....	<b>\$335</b>
	Automatically adapts to SMPTE (30fps), EBU (25fps), and FILM (24fps) LTC standards. Reads all time bits, user bits, and embedded bits, including the drop-frame and color-frame flags. Accepts 100mVpp to 10Vpp input levels, 1/10x to 80x, bi-directional, DF/NDF. Uses a Hi-Z BNC input connector, and a differential LTC input (for superior noise rejection).	
<b>USB-21VL/RDR</b>	VITC/LTC Reader and NTSC Line 21 Data Reader. ....	<b>\$500</b>
	Includes all features of the USB-LTC/RDR above, plus reads VITC and NTSC Line 21 data, including caption data, V-chip information, and other XDS data services. Automatically adapts to NTSC (30fps) and PAL/SECAM (25fps) video standards. Reads VITC at -1x to STILL to +3x or better (is highly machine dependant). The video input uses a 75ohm BNC connector and is differential (for superior noise rejection).	
<b>USB-IRIG/RDR</b>	Multi-Format IRIG Time Code Reader. ....	<b>\$425</b>
	Automatically adapts to whatever play speed IRIG standard signal is being supplied, including TTL (DCLS) and Modulated IRIG-A, B, D, E, G, and H. Supports all standard IRIG code formats except for the high frequency (1MHz) modulated IRIG-B (B150-B153). Reads all IRIG data fields and bits, including time-of-day, day-of-year, straight binary seconds (SBS), and all control bits. For modulated IRIG, accepts 400mVpp to 10Vpp input signals having a standard mark-to-space ratio of 3:1 to 6:1. Uses a single Hi-Z BNC input connector which is single ended for TTL (DCLS) signals, and which is differential for modulated signals (for superior noise rejection).	

### AEC-μBOX (micro-BOX) PRODUCTS

Welcome to our "AEC-μBOX" family of products. These tiny but rugged and nicely styled metal boxes replace some of our older AEC-BOX products which are becoming difficult to manufacture due to part shortages. All AEC-μBOX products include a high performance on-board processor, diagnostics, full RoHS compliance, full FCC and CE-Mark approval, a test/demo/support CD-ROM (including Windows driver software and a PDF format manual), and our standard 2 year warranty.

<b>AEC-μBOX-2</b>	Play Speed LTC Reader with RS232/RS422 I/O .....	<b>\$410</b>
	Fully software compatible with our older AEC-BOX-1 and AEC-BOX-2 products. Suitable for capturing live time code into Apple Final Cut Pro or similar systems which expect to see a "Sony Protocol VTR". Automatically adapts to SMPTE (30fps), EBU (25fps), and FILM (24fps) LTC standards. Reads all time bits, user bits, and embedded bits, including the drop-frame and color-frame flags. Accepts 100mVpp to 10Vpp input levels, 1/10x to 2.2x, bi-directional, DF/NDF. Uses a differential LTC input (for superior noise rejection) and locking BNC connector. Includes VTR emulator software, standard 9-pin RS422 connector, custom 2-meter RS232 cable, and 2-meter USB power cable. No RS422 cable included. May be called "AEC-uBOX-2" for ordering purposes.	

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### AEC-BOX PRODUCT FAMILY OVERVIEW

Our AEC-BOX product family was introduced in 1990, during the era of analog video standards and RS232/RS422 communications. These are nice looking "modem sized" metal boxes which provide a variety of often-unique interfaces between analog LTC, analog video/VITC, RS232/RS422, and machine controls. Because of their design age, these products contain leaded solder, and thus are not RoHS compliant (could be a problem in Europe). Furthermore, because of their design age, some parts are difficult to obtain, so availability may be limited. At present we do not usually stock these items, we build them to order (by hand), and these products are not returnable unless they fail to work as advertised (which will not happen). You may be able to find some of these boxes for sale (used) on eBay, but we generally do not have much incentive to support such boxes. These boxes continue to provide good working solutions to age-old equipment interfacing problems, and in most cases we are the only company in the world making these products. See [www.adrielec.com/downloads](http://www.adrielec.com/downloads) for PDF manuals (sans schematics). Please contact us for availability. We will be glad to build as many boxes for you as we can.

### LTC/VITC READER & TRANSLATOR BOXES

The RS232/RS422 serial interface on these boxes allow PC's or any other device having a serial port to read time code(s). Translator boxes, such as the AEC-BOX-5, by default operate independently of the serial interface. Boxes include automatic NTSC/SMPTE and PAL/EBU mode switching, plus a serial connector kit if needed. Note that when using RS232 connections, a nonstandard RS232 cable is required (order below). Limited availability. We realize that there is not much demand for analog VITC products at present, but some customers do still use it. The AEC-BOX-5 in particular continues to be a good product which remains relevant in today's world.

<b>AEC-BOX-1</b>	Play Speed LTC Reader with RS232/RS422 Output (no receive capability) ..... Not recommended for new designs. Replaced by AEC-μBOX-2.	<b>\$500</b>
<b>AEC-BOX-2</b>	Wideband LTC Reader with RS232/RS422 I/O ..... Not recommended for new designs. Replaced by AEC-μBOX-2.	<b>\$500</b>
<b>AEC-BOX-10</b>	Analog VITC Reader with RS232/RS422 I/O ..... Reads -1x to STILL to +3x (minimum), DF/NDF. Has a Hi-Z looping video/ VITC input. Automatic or programmable VITC line selection. Includes comparator and VTR emulator software.	<b>\$445</b>
<b>AEC-BOX-20</b>	Auto LTC/VITC Reader with RS232/RS422 I/O ..... Combines all features of AEC-BOX-2 and AEC-BOX-10. LTC/VITC selection is automatic or controlled via the serial port.	<b>\$545</b>
<b>AEC-BOX-5</b>	LTC Translator/Regenerator with RS232/RS422 I/O ..... Restores LTC signal quality and video phasing. Does LTC format conversions. Includes comparator and relay. Can be used with or without a host computer.	<b>\$495</b>
<b>AEC-BOX-25</b>	Analog VITC-to-LTC Translator with RS232/RS422 I/O ..... LTC output syncs to video (if present) or freeruns, and jams to VITC input data when present. Coasts gracefully through VITC dropouts. Can be used with or without a host computer. Includes time code comparator software. No VTR emulator mode available.	<b>\$495</b>

#### **OPTIONS AND ACCESSORIES: (feet /3.3 = meters)**

<b>230VAC</b>	Converts internal power supply to 230VAC .....	<b>\$0</b>
<b>RELAY</b>	SPST normally open (1 form A) relay output .....	<b>\$30</b>
<b>EBU</b>	Power-on default is PAL /EBU mode .....	<b>\$0</b>
<b>ESBUSCBL2</b>	Box to 9-pin ESBUS controller RS422 cable (5 conductor) .....	<b>\$25 + 0.90/meter</b>
<b>BOX232CBL</b>	Box to 9-pin IBM RS232 port cable, with 9-pin to 25-pin adapter .....	<b>\$23 + 0.70/meter</b>
<b>BOX232MAC</b>	Box to 8-pin Macintosh RS232 port cable (2 meters) .....	<b>\$25</b>
<b>BNC2RCA</b>	Adapter from BNC cable to RCA jack .....	<b>\$6</b>

Adrienne, AEC, AEC-PCI, AEC-PCle, PCIeSDV, PCIe-TC, PCIe-LTC, PCIe-VLTC, PCI-TC, PCI-LTC, PCI-VLTC, USB-TC, USB-LTC, USB-IRIG, AEC-IUSB, AEC-XUSB, AEC-BOX, and AEC-μBOX are trademarks of Adrienne Electronics Corporation.

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## Adrienne Electronics Corporation

### LTC GENERATOR BOX

This box is inexpensive and easy to use. Just plug it in and it starts generating longitudinal time code (LTC) starting at 00:00:00:00. No serial interface is available. Has automatic NTSC/SMPTE and PAL/EBU mode switching (for the video reference input).

<b>AEC-BOX-8</b>	LTC Generator with Analog Video Sync Input .....	<b>\$345</b>
	Generates DF/NDF play speed LTC locked to the analog video input (if present). Otherwise freeruns using the internal 0.1% crystal. Limited availability.	

#### OPTIONS AND ACCESSORIES:

<b>230VAC</b>	Converts internal power supply to 230VAC .....	<b>\$0</b>
<b>NEWEPR</b>	Changes EPROM default settings (specify starting time, user bits, etc.) .....	<b>\$20</b>
<b>EBU</b>	Power-on default is PAL /EBU mode .....	<b>\$0</b>
<b>BNC2RCA</b>	Adapter from BNC cable to RCA jack .....	<b>\$6</b>

### SERIAL LTC/ VITC DATA INSERTER BOXES

These boxes add time code capabilities to "Sony protocol" RS422 serially controlled VTR's which have no internal time code readers, such as the BVU-800, CR-850U, and BVH-2000. Each box includes full machine control features, standard editing controls, protocol translation for the JVC CR-850U, automatic NTSC/SMPTE and PAL/EBU mode switching, a 3 meter RS422 control cable, plus proven performance and reliability. Limited availability.

<b>AEC-BOX-30</b>	Serial LTC Reader Data Inserter Box .....	<b>\$495</b>
	Reads 1/10x to 50x, bi-directional, DF/NDF, 100mVpp to 10Vpp.	
<b>AEC-BOX-30G</b>	Serial LTC Reader/Generator Data Inserter Box .....	<b>\$595</b>
	Same as AEC-BOX-30, plus LTC Generator capabilities.	
<b>AEC-BOX-31</b>	Serial VITC Reader Data Inserter Box .....	<b>\$495</b>
	Reads -1x to STILL to +3x (minimum), DF/NDF, manual or automatic VITC line selection.	
<b>AEC-BOX-32</b>	Serial LTC/VITC Reader Data Inserter Box .....	<b>\$595</b>
	Combines all features of AEC-BOX-30 and AEC-BOX-31.	

#### OPTIONS AND ACCESSORIES: (feet /3.3 = meters)

<b>230VAC</b>	Converts internal power supply to 230VAC .....	<b>\$0</b>
<b>ESBUSCBL2</b>	Box to 9-pin ESbus controller RS422 cable (5 conductor) .....	<b>\$25 + 0.90/meter</b>
<b>BOX232CBL</b>	Box to 9-pin IBM RS232 port cable, with 9-pin to 25-pin adapter .....	<b>\$23 + 0.70/meter</b>
<b>BOX232MAC</b>	Box to 8-pin Macintosh RS232 port cable (2 meters) .....	<b>\$25</b>
<b>BNC2RCA</b>	Adapter from BNC cable to RCA jack .....	<b>\$6</b>

### SERIAL PROTOCOL CONVERTER BOX

<b>AEC-BOX-50</b>	Ampex to Sony Serial Protocol Converter Box .....	<b>\$695</b>
	Makes Ampex serial protocol VTR's "look like" Sony serial protocol VTR's. Includes full machine control features, standard editing functions, automatic NTSC/PAL mode switching, and a 3 meter RS422 control cable. Guaranteed to work properly. Limited availability.	

#### OPTIONS AND ACCESSORIES: (feet /3.3 = meters)

<b>230VAC</b>	Converts internal power supply to 230VAC .....	<b>\$0</b>
<b>ESBUSCBL2</b>	Box to 9-pin ESbus controller RS422 cable (5 conductor) .....	<b>\$25 + 0.90/meter</b>
<b>BOX232CBL</b>	Box to 9-pin IBM RS232 port cable, with 9-pin to 25-pin adapter .....	<b>\$23 + 0.70/meter</b>
<b>BOX232MAC</b>	Box to 8-pin Macintosh RS232 port cable (2 meters) .....	<b>\$25</b>

Adrienne, AEC, AEC-PCI, AEC-PCle, PCleSDV, PCle-TC, PCle-LTC, PCle-VLTC, PCI-TC, PCI-LTC, PCI-VLTC, USB-TC, USB-LTC, USB-IRIG, AEC-IUSB, AEC-XUSB, AEC-BOX, and AEC-μBOX are trademarks of Adrienne Electronics Corporation.

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tel: 1-575-772-2572 fax: 1-575-772-2575 <http://www.adrielec.com>

All prices are US dollars and are F.O.B. Pie Town, NM, USA. All products come with documentation and our 2 year warranty.

## Adrienne Electronics Corporation

### SERIAL ADAPTER BOXES FOR PARALLEL REMOTE VTR'S

Make JVC, Panasonic, and Sony parallel remote VTR's look like "Sony protocol" RS422 serial remote VTR's. One adapter box is required for each VTR to be controlled. JVC interface boxes cannot be used with Sony VTR's, etc., because the parallel remote interfaces are completely different. Each box includes full machine control features, standard editing functions, automatic NTSC/PAL mode switching, and a 2 meter parallel remote cable for your VTR. Limited availability.

<b>AEC-BOX-80</b>	Serial Adapter for Parallel Remote VTR's (control track only) .....	<b>\$595</b>
<b>AEC-BOX-81</b>	Serial Adapter with LTC Reader .....	<b>\$695</b>
<b>AEC-BOX-83</b>	Serial Adapter with Auto LTC/VTC Reader .....	<b>\$795</b>
<b>AEC-BOX-81G</b>	Serial Adapter with LTC Reader and Generator .....	<b>\$795</b>
<b>AEC-BOX-83G</b>	Serial Adapter with LTC/VTC Reader and Generator .....	<b>\$995</b>

#### IMPORTANT:

Add the suffix "-J" to the model number for 45-pin JVC VTR's (such as the 8250, 8600, 610/810, and 611/811).

Add the suffix "-P" to the model number for 34-pin PANASONIC VTR's (such as the 6300, 7350, 7500A, and 7750).

Add the suffix "-S" to the model number for 33-pin SONY VTR's (such as the 5800/5850, 7600, and 9600).

#### OPTIONS AND ACCESSORIES: (feet /3.3 = meters)

<b>EBU</b>	Power-on default is PAL/EBU mode .....	<b>\$0</b>
<b>CAPOVR</b>	Capstan override RCA plug for Panasonic cables .....	<b>\$0</b>
<b>ESBUSCBL2</b>	Box to 9-pin ESbus controller RS422 cable (5 conductor) .....	<b>\$25 + 0.90/meter</b>
<b>BOX232CBL</b>	Box to 9-pin IBM RS232 port cable, with 9-pin to 25-pin adapter .....	<b>\$23 + 0.70/meter</b>
<b>BOX232MAC</b>	Box to 8-pin Macintosh RS232 port cable (2 meters) .....	<b>\$25</b>

### SIMPLE PARALLEL/SERIAL MACHINE CONTROL ADAPTER BOXES

Simple machine control adapter boxes support the STOP, PLAY, FAST FORWARD, REWIND, RECORD, PAUSE, and EJECT functions, including both control and tally-back. Editing and other advanced functions are not supported. Digital inputs may be driven by TTL logic, open-collector transistors, or switch and relay closures to ground. Active-low open-collector digital outputs can drive logic gates, LED's, and optoisolators. Limited availability.

<b>AEC-BOX-88</b>	Simple "Sony Protocol" Serial Adapter for Parallel Remote Devices .....	<b>\$395</b>
	Includes parallel interface connector kit. Please indicate the type of machine being controlled.	
<b>AEC-BOX-89</b>	Parallel Adapter for "Sony Protocol" Serial Remote VTR's .....	<b>\$395</b>
	Includes a parallel interface connector kit and a 3 meter RS422 control cable.	

#### OPTIONS AND ACCESSORIES:

<b>230VAC</b>	Converts internal power supply to 230VAC .....	<b>\$0</b>
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Adrienne, AEC, AEC-PCI, AEC-PCle, PCIeSDV, PCIe-TC, PCIe-LTC, PCIe-VLTC, PCI-TC, PCI-LTC, PCI-VLTC, USB-TC, USB-LTC, USB-IRIG, AEC-IUSB, AEC-XUSB, AEC-BOX, and AEC-μBOX are trademarks of Adrienne Electronics Corporation.

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