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Adrienne Electronics Corporation

TIME CODE & CAPTION BOARDS FOR PCI-EXPRESS-BUS COMPUTERS

Our fourth generation of time code 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, 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. Analog video circuitry can synchronize to 13 different video standards, including 720p and 1080i signals having tri-sync pulses. RCA jacks are standard for LTC, and BNC connectors are standard for video/VITC. 4-channel GPIO option available for external logic interfacing. Large order customization may be available.

PCIe-LTC/RDR	LTC reader, bi-directional, 1/10x to 80x, simultaneous time and user bits, DF/NDF.	\$325
PCIe-LTC/RGA	LTC reader/generator. Adds LTC generator and regenerator capabilities to PCIe-LTC/RDR. LTC generator can freerun or synchronize to LTC input, SD analog video, or HD analog video.	\$475
PCIe-VLTC/RDA	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.	\$455
PCIe-VLTC/RG2	LTC/VITC/L21 data reader and LTC generator. Combines PCIe-LTC/RGA and PCIe-VLTC/RDA, plus has analog VITC-to-LTC translator mode.	\$575

OPTIONS:

LOWB	Low Profile Bracket (in place of Standard Height bracket).	\$5
GPIO	4-Channel GPIO Port for External Logic Interfacing. Contact factory for configuration details and pricing.	\$TBD
BNC1	Use BNC connector for LTC Input (J1).	\$5
BNC2	Use BNC connector for LTC Output (J2).	\$5
XLR1	Use Mini-XLR connector for LTC Input (J1) (mating plug included).	\$20
XLR2	Use Mini-XLR connector for LTC Output (J2) (mating plug included).	\$20

Nomenclature Note - Those of you who have used our conventional PCI-TC products in the past will notice a slight model numbering change here. Where analog video is present, we have included the letter "A" (analog) in the model number suffix. For example, PCIe-VLTC/RDA is the functional equivalent of our older PCI-VLTC/RDR product. We anticipate coming out with "S" (standard definition digital video) and "H" (high definition digital video) functionally similar time code boards in the near future, and want to have "room" for these new products within our model numbering scheme when and if they become available. The only exception is the PCIe-LTC/RDR, which by definition will always be an analog product, so no suffix change was deemed necessary in this case. Stay in touch for future developments.

Adrienne, AEC, PCIe-TC, PCIe-LTC, PCIe-VITC, PCIe-VLTC, USB-TC, USB-IRIG, USB-LTC, USB-VITC, PCI-TC, PCI-LTC, PCI-VITC, PCI-VLTC, AEC-BOX, and AEC-μBOX are trademarks of Adrienne Electronics Corporation. Copyright ©2008 AEC.
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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. Large order customization may be available.

PCI-LTC/RDR	LTC reader, bi-directional, 1/10x to 80x, simultaneous time and user bits, DF/NDF. The PCI-bus replacement for our older PC-LTC/IOR and PC-LTC/RDR boards.	\$315
PCI-LTC/GEN	LTC generator. Can sync to video or freerun with very high precision.	\$365
PCI-LTC/RG1	LTC reader/generator. Combines PCI-LTC/RDR and PCI-LTC/GEN, plus can sync to LTC.	\$465
PCI-VITC/RDR	VITC reader, bi-directional, -1x to STILL to +3x, simultaneous time and user bits, DF/NDF. Automatic or programmable VITC line selection.	\$345
PCI-VITC/GEN	VITC generator. Keys VITC over the desired video lines.	\$365
PCI-VITC/RG1	VITC reader/generator. Combines PCI-VITC/RDR and PCI-VITC/GEN.	\$465
PCI-VLTC/RDR	LTC/VITC reader. Combines all features of PCI-LTC/RDR and PCI-VITC/RDR boards, plus automatic or controlled selection of LTC vs. VITC. Reads both simultaneously at PLAY speed.	\$445
PCI-VLTC/GEN	LTC/VITC generator. Generates both LTC and VITC simultaneously, and can sync to video or freerun with very high precision.	\$465
PCI-VLTC/RG3	LTC-to-VITC translator, and VITC reader. Similar to PCI-VLTC/RDR, plus has VITC generator and LTC-to-VITC translator modes.	\$555
PCI-VLTC/RG2	VITC-to-LTC translator, and LTC reader. Similar to PCI-VLTC/RDR, plus has LTC generator and VITC-to-LTC translator modes.	\$555
PCI-VLTC/RG1	LTC/VITC reader/generator/translator. Combines the features of the PCI-LTC/RG1 and PCI-VITC/RG1 boards, plus can translate LTC to VITC, VITC to LTC, and regenerate time codes.	\$665
PCI-21/RDR	NTSC Line 21 Data Reader, including closed caption, text, V-chip, clock, and other data services.	\$315
PCI-21L/RDR	LTC Reader and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-LTC/RDR.	\$375
PCI-21L/RG1	LTC Reader/Generator and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-LTC/RG1.	\$495
PCI-21V/RDR	VITC Reader and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VITC/RDR.	\$375
PCI-21V/RG1	VITC Reader/Generator and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VITC/RG1.	\$495
PCI-21VL/RDR	VITC/LTC Reader and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VLTC/RDR.	\$475
PCI-21VL/RG1	VITC/LTC Reader/Generator and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VLTC/RG1.	\$695
OPTIONS:		
OSD	On-Screen Display of time code information. Includes software control of character on/off, character size, character color, vertical position, horizontal position, and background color.	\$100
SERIAL	RS232/RS422 serial interface, intelligent, with TX/RX buffering. Not COM port compatible. Includes transmit on compare match, plus stored string transmission and full BREAK character support.	\$80
BNC2	Use BNC connector for LTC Input.	\$5
BNC3	Use BNC connector for LTC Output.	\$5
XLR2	Use Mini-XLR connector for LTC Input (mating plug included).	\$20
XLR3	Use Mini-XLR connector for LTC Output (mating plug included).	\$20

Adrienne, AEC, PCIe-TC, PCIe-LTC, PCIe-VITC, PCIe-VLTC, USB-TC, USB-IRIG, USB-LTC, USB-VITC, PCI-TC, PCI-LTC, PCI-VITC, PCI-VLTC, AEC-BOX, and AEC-μBOX are trademarks of Adrienne Electronics Corporation. Copyright ©2008 AEC.

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AEC- μ BOX (micro-BOX) PRODUCTS

Welcome to our "AEC- μ BOX" 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. All AEC- μ BOX 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 driver software and a PDF format manual), and our standard 2 year warranty.

AEC-μBOX-2	Play Speed LTC Reader with RS232/RS422 I/O	\$395
	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. 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, 2-meter RS232 cable, and 2-meter USB power cable.	

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, 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.

USB-LTC/RDR	LTC Reader.	\$315
	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).	
USB-21VL/RDR	VITC/LTC Reader and NTSC Line 21 Data Reader.	\$465
	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).	
USB-IRIG/RDR	Multi-Format IRIG Time Code Reader.	\$395
	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).	

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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). 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).

AEC-BOX-1	Play Speed LTC Reader with RS232/RS422 Output (no receive capability)	\$500
	Not recommended for new designs. Replaced by AEC- μ BOX-2 on page 3 of this catalog.	
AEC-BOX-2	Wideband LTC Reader with RS232/RS422 I/O	\$500
	Not recommended for new designs. Replaced by AEC- μ BOX-2 on page 3 of this catalog.	
AEC-BOX-10	Analog VITC Reader with RS232/RS422 I/O	\$445
	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.	
AEC-BOX-20	Auto LTC/VITC Reader with RS232/RS422 I/O	\$545
	Combines all features of AEC-BOX-2 and AEC-BOX-10. LTC/VITC selection is automatic or controlled via the serial port.	
AEC-BOX-5	LTC Translator/Regenerator with RS232/RS422 I/O	\$495
	Restores LTC signal quality and video phasing. Does LTC format conversions. Includes comparator and relay. Can be used with or without a host computer.	
AEC-BOX-25	Analog VITC-to-LTC Translator with RS232/RS422 I/O	\$495
	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.	

OPTIONS AND ACCESSORIES:

		(feet/3.3 = meters)
230VAC	Converts internal power supply to 230VAC	\$0
RELAY	SPST normally open (1 form A) relay output	\$30
EBU	Power-on default is PAL/EBU mode	\$0
ESBUSCBL2	Box to 9-pin ESBUS controller RS422 cable (5 conductor)	\$25 + 0.90/meter
BOX232CBL	Box to 9-pin IBM RS232 port cable, with 9-pin to 25-pin adapter	\$23 + 0.70/meter
BOX232MAC	Box to 8-pin Macintosh RS232 port cable (2 meters)	\$25
BNC2RCA	Adapter from BNC cable to RCA jack	\$6

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).

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

OPTIONS AND ACCESSORIES:

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

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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.

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

OPTIONS AND ACCESSORIES:

(feet/3.3 = meters)

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

SERIAL PROTOCOL CONVERTER BOX

AEC-BOX-50	Ampex to Sony Serial Protocol Converter Box	\$695
	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, a 3 meter RS422 control cable, and a 15-day money back guarantee.	

OPTIONS AND ACCESSORIES:

(feet/3.3 = meters)

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

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SERIAL ADAPTER BOX 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. Time code capabilities are no longer available.

AEC-BOX-80 Serial Adapter for Parallel Remote VTR's (control track only) **\$595**

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

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.

AEC-BOX-88 Simple "Sony Protocol" Serial Adapter for Parallel Remote Devices **\$395**
Includes parallel interface connector kit. Please indicate the type of machine being controlled.

AEC-BOX-89 Parallel Adapter for "Sony Protocol" Serial Remote VTR's **\$395**
Includes a parallel interface connector kit and a 3 meter RS422 control cable.

OPTIONS AND ACCESSORIES:

230VAC Converts internal power supply to 230VAC **\$0**

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