

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...

AEC-IUSB-38	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).	\$325
AEC-IUSB-41	Analog LTC reader. Bi-directional play speed LTC reader with differential LTC input, simultaneous time and user bits, DF/NDF. J1 is LTC input.	\$275
AEC-IUSB-42	Dual Analog LTC Reader. Like having two(2) AEC-IUSB-41 boards in one. J1 and J2 are LTC inputs.	\$380

OPTIONS:

RCA	Use RCA connectors for LTC inputs and outputs.	\$0
BNC	Use BNC connectors for LTC inputs and outputs.	\$6 each
XLR3	Use Mini-XLR-3 connectors for LTC inputs and outputs (mating plug included).	\$26 each
FULB	Full-Height Bracket (Standard Height).	\$0
LOWB	Low-Profile Bracket (in place of Standard Height bracket).	\$0

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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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.

AEC-PCIe-41	LTC reader, bi-directional, 1/10x to 80x, simultaneous time and user bits, DF/NDF.	\$380
AEC-PCIe-42	Dual LTC reader, bi-directional, 1/10x to 80x, simultaneous time and user bits, DF/NDF.	\$490
AEC-PCIe-45	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.	\$560
AEC-PCIe-46	LTC/VITC/L21 data reader and LTC generator. Combines AEC-PCIe-45 and AEC-PCIe-49, plus has analog VITC-to-LTC translator mode.	\$695
AEC-PCIe-48	LTC reader with analog video sync input. Adds SD analog video and HD analog video field and frame interrupt capabilities to AEC-PCIe-41.	\$460
AEC-PCIe-49	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.	\$540
PCIe-LTC/RDR	No longer available. Drop-in replacement is AEC-PCIe-41(EMU).	
PCIe-LTC/RDV	No longer available. Drop-in replacement is AEC-PCIe-48(EMU).	
PCIe-LTC/RGA	No longer available. Drop-in replacement is AEC-PCIe-45(EMU).	
PCIe-VLTC/RDA	No longer available. Drop-in replacement is AEC-PCIe-49(EMU).	
PCIe-VLTC/RG2	No longer available. Drop-in replacement is AEC-PCIe-46(EMU).	

OPTIONS:

NAT	"Native Mode" (normal AEC-PCIe board operating mode).	\$0
EMU	"PCIe-TC Emulation Mode" (behaves exactly like the indicated PCIe-TC board model).	\$0
RCA	Use RCA connectors for LTC inputs and outputs.	\$0
BNC	Use BNC connectors for LTC inputs and outputs.	\$6 each
XLR3	Use Mini-XLR-3 connectors for LTC inputs and outputs (mating plug included).	\$26 each
XLR5	Use Mini-XLR-5 connectors for LTC inputs and outputs (mating plug included).	\$32 each
FULB	Full-Height Bracket (Standard Height).	\$0
LOWB	Low-Profile Bracket (in place of Standard Height bracket).	\$0

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.

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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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.

PCI-LTC/RDR	LTC reader, bi-directional, 1/10x to 80x, simultaneous time and user bits, DF/NDF.	\$370
	The PCI-bus replacement for our older PC-LTC/IOR and PC-LTC/RDR boards.	
PCI-LTC/GEN	LTC generator. Can sync to video or freerun with very high precision.	\$435
PCI-LTC/RG1	LTC reader/generator. Combines PCI-LTC/RDR and PCI-LTC/GEN, plus can sync to LTC.	\$550
PCI-VITC/RDR	VITC reader, bi-directional, -1x to STILL to +3x, simultaneous time and user bits, DF/NDF.	\$415
	Automatic or programmable VITC line selection.	
PCI-VITC/GEN	VITC generator. Keys VITC over the desired video lines.	\$435
PCI-VITC/RG1	VITC reader/generator. Combines PCI-VITC/RDR and PCI-VITC/GEN.	\$550
PCI-VLTC/RDR	LTC/VITC reader. Combines all features of PCI-LTC/RDR and PCI-VITC/RDR boards,	\$530
	plus automatic or controlled selection of LTC vs. VITC. Reads both simultaneously at PLAY speed.	
PCI-VLTC/GEN	LTC/VITC generator. Generates both LTC and VITC simultaneously,	\$550
	and can sync to video or freerun with very high precision.	
PCI-VLTC/RG3	LTC-to-VITC translator, and VITC reader. Similar to PCI-VLTC/RDR,	\$670
	plus has VITC generator and LTC-to-VITC translator modes.	
PCI-VLTC/RG2	VITC-to-LTC translator, and LTC reader. Similar to PCI-VLTC/RDR,	\$670
	plus has LTC generator and VITC-to-LTC translator modes.	
PCI-VLTC/RG1	LTC/VITC reader/generator/translator. Combines the features of the PCI-LTC/RG1 and PCI-VITC/RG1 boards,	\$790
	plus can translate LTC to VITC, VITC to LTC, and regenerate time codes.	
PCI-21/RDR	NTSC Line 21 Data Reader, including closed caption, text, V-chip, clock, and other data services.	\$370
PCI-21L/RDR	LTC Reader and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-LTC/RDR.	\$450
PCI-21L/RG1	LTC Reader/Generator and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-LTC/RG1.	\$590
PCI-21V/RDR	VITC Reader and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VITC/RDR.	\$450
PCI-21V/RG1	VITC Reader/Generator and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VITC/RG1.	\$590
PCI-21VL/RDR	VITC/LTC Reader and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VLTC/RDR.	\$570
PCI-21VL/RG1	VITC/LTC Reader/Generator and NTSC Line 21 Data Reader. Combines PCI-21/RDR and PCI-VLTC/RG1.	\$825
OPTIONS:		
OSD	On-Screen Display of time code information. Includes software control of character on/off,	\$110
	character size, character color, vertical position, horizontal position, and background color.	
SERIAL	RS232/RS422 serial interface, intelligent, with TX/RX buffering. Not COM port compatible.	\$90
	Includes transmit on compare match, plus stored string transmission and full BREAK character support.	
RCA	Use RCA connectors for LTC inputs and outputs.	\$0
BNC	Use BNC connectors for LTC inputs and outputs.	\$6 each
XLR3	Use Mini-XLR-3 connectors for LTC inputs and outputs (mating plug included).	\$26 each

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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.

USB-LTC/RDR	LTC Reader.	\$370
	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.	\$550
	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.	\$465
	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.

AEC-μBOX-2	Play Speed LTC Reader with RS232/RS422 I/O	\$450
	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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