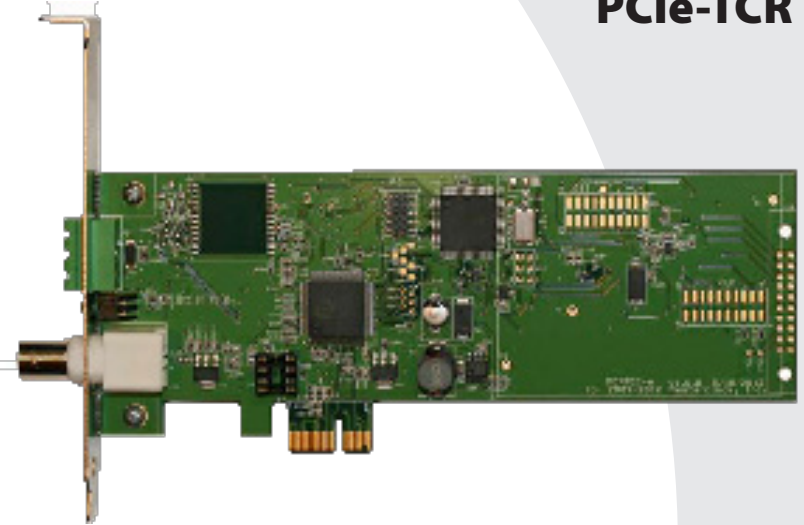# PCIe-TCR

FEATURES

- Synchronizes PC to ± 2 milliseconds of time code reference
- References IRIG-B, SMPTE, EBU time codes
- Automatic time code detection
- Balanced and unbalanced time code inputs
- Provides millisecond accuracy to Windows applications
- Microsecond accuracy achievable through API development
- Fully configurable time zone and daylight saving time offsets
- PCIe revision 2.0 – slot compatible X1 through X16
- LED status indicator

SPECIFICATIONS

Time Code Inputs

> SMPTE (30/25/25 fps - non-drop frame only) to Leitch Date Encoding Standard
> IRIG-B pulse width coded (unmodulated) DC, IEEE 1344 standard
> IRIG-B(1) 1 kHz Amplitude Modulated, IEEE 1344 standard

Supported Drivers

> Windows XP (32 bit)
> Windows 7/8/10 (32 & 64 bit)
> Windows Server 2003 R2/2008 R2/2010 R2/2012 R2/2016
> Linux

Software

> API software development kit and documentation is provided for designers
> Windows OS requires Net Framework 4.0 and a Windows Visual Studios C++ to be installed

Physical

> Length: 6.6 in (167.6 mm), Height: 2.712 in (68.8 mm)
> Low profile card and bracket standard; Full height bracket included

Operating Parameters

> Temperature: 0 to 60 °C

Compliance

> FCC, CE Marked, ROHS, ANSI

Holdover Accuracy

> With loss of power or time reference syncronization, device reverts to an internal battery-backed real-time clock chip with accuracy of ± 1min/year

High-stability Oscillator Options

> HSO-1 with TCXO provides accuracy of ± 3 seconds/year
> HSO-2 with OXCO provides typical stability of ± 250ms/year after 30 days of aging

Freq = 10 Mhz	HSO-1	HSO-2
Oscillator Type	TCXO	OCXO
Freq. Stability	± 2.5 x 10`6	± 5 x 10`9
Aging Stability per yr	± 1 x 10`6	± 1 x 10`8
Drift per year	± 3 seconds	± 0.3 seconds

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