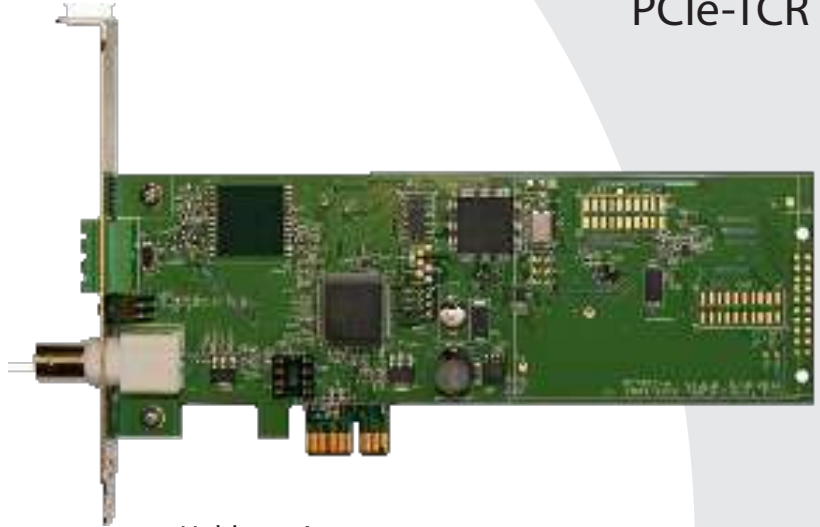


FEATURES

- 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 R2/2016/2019
- > 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

Holdover Accuracy

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

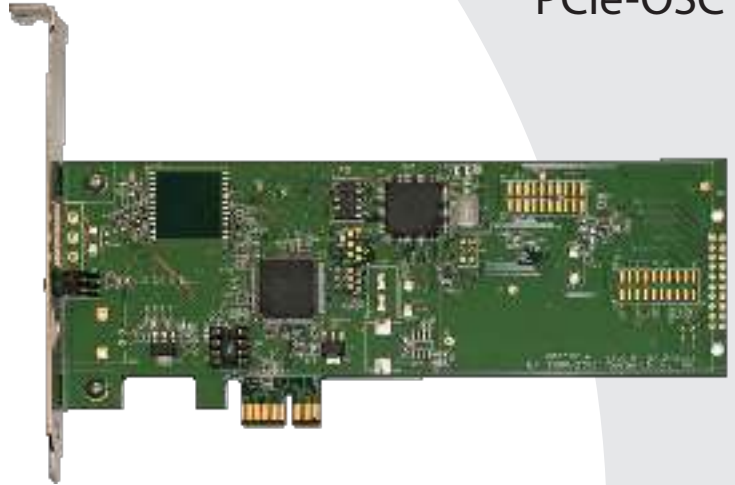
High-stability Oscillator Options

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

Freq = 10 Mhz	HSO-1	HSO-2
Oscillator Type	TCXO	OCXO
Freq. Stability	$\pm 2.5 \times 10^{-6}$	$\pm 5 \times 10^{-9}$
Aging Stability per yr	$\pm 1 \times 10^{-6}$	$\pm 1 \times 10^{-8}$
Drift per year	± 3 seconds	± 0.3 seconds

FEATURES

- 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 Generation Accuracy

> Internal battery-backed real-time clock chip provides accuracy of ± 1 min/year

Supported Drivers

- > Windows XP (32 bit)
- > Windows 7/8/10 (32 & 64 bit)
- > Windows Server 2003 R2/2008 R2/2010 R2/2012 R2/2016/2019
- > 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

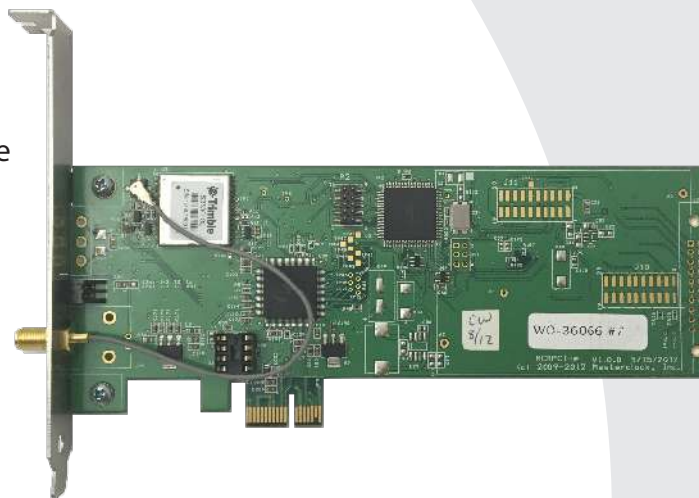
High-stability Oscillator Options

- > HSO-1 with TCXO provides accuracy of ± 3 seconds/year
- > HSO-2 with OCXO provides accuracy of ± 3 seconds/year

Freq = 10 Mhz	HSO-1	HSO-2
Oscillator Type	TCXO	OCXO
Freq. Stability	$\pm 2.5 \times 10^{-6}$	$\pm 5 \times 10^{-9}$
Aging Stability per yr	$\pm 1 \times 10^{-6}$	$\pm 1 \times 10^{-8}$
Drift per year	± 3 seconds	± 0.3 seconds

FEATURES

- Synchronizes PC to ± 2 milliseconds of GPS reference
- 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

Holdover Accuracy

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

Supported Drivers

- > Windows XP (32 bit)
- > Windows 7/8/10 (32 & 64 bit)
- > Windows Server 2003 R2/2008 R2/2010 R2/2012 R2/2016/2019
- > 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

Antenna Options

- > Basic antenna package includes magnetic GPS antenna and 15 ft (5 m) of cable
- > Standard antenna package includes outdoor GPS antenna, mounting kit, and 50 ft (15 m) of cable

High-stability Oscillator Options

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

Freq = 10 Mhz	HSO-1	HSO-2
Oscillator Type	TCXO	OCXO
Freq. Stability	$\pm 2.5 \times 10^{-6}$	$\pm 5 \times 10^{-9}$
Aging Stability per yr	$\pm 1 \times 10^{-6}$	$\pm 1 \times 10^{-8}$
Drift per year	± 3 seconds	± 0.3 seconds