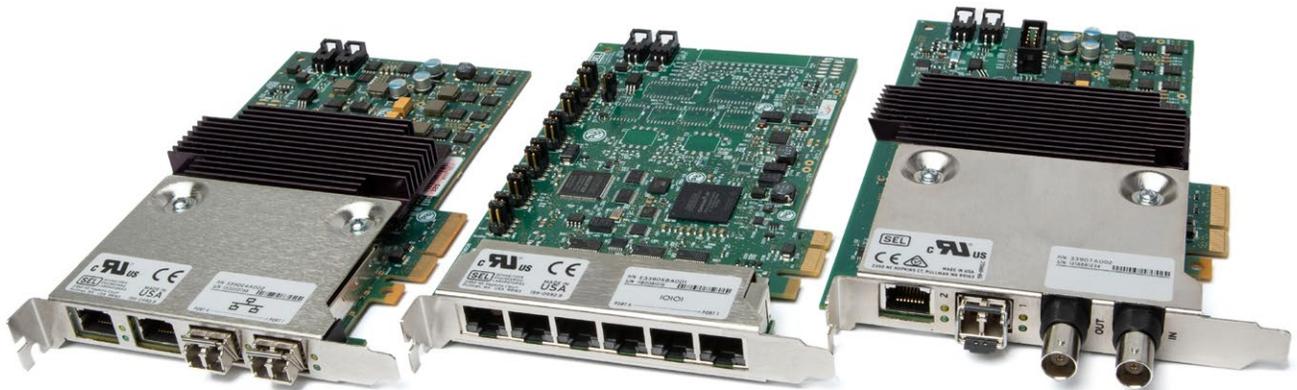


# SEL-3390

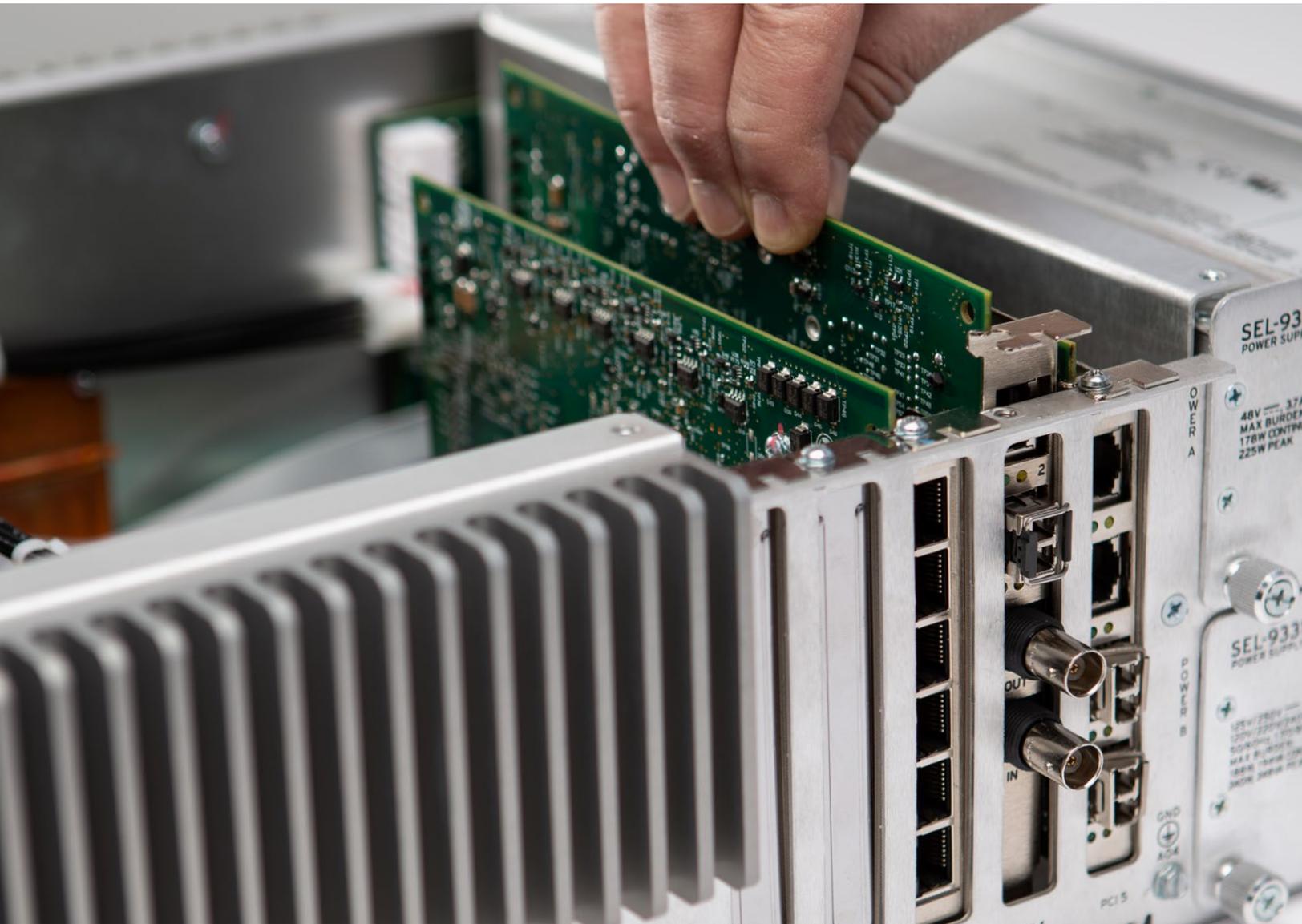
## PCI Express (PCIe) Expansion Cards



Rugged design and reliable performance  
in the most demanding industrial and  
critical infrastructure environments

- Increases automation controller and computing system communications capabilities with Ethernet, serial, and time-synchronization protocol options
- Provides reliable operation with wide operating temperature ranges and immunity to ESD, shock, and vibration
- Includes SEL's ten-year warranty and technical support





**Versatile.**  
**Rugged.**  
**Reliable.**

SEL's rugged line of PCIe expansion cards are designed, built, and tested in the U.S.A. to perform in the most challenging utility and industrial environments. SEL PCIe cards have wide operating temperature ranges, require no forced-air cooling because of their low-power design, and can be ordered with the optional conformal coating. All expansion cards come with SEL's no-questions-asked, worldwide, ten-year warranty and free technical support.

## SEL-3390T Time and Ethernet Adapter Card

The SEL-3390T adds precise time synchronization and distribution functionality to computing devices, such as the SEL-3355 Automation Controller. It provides two Ethernet ports and one BNC IN and one BNC OUT for IRIG-B. With the SEL-3390T, you can source time from IRIG-B and Ethernet devices. The SEL-3390T complies with the PCIe form-factor and can also be installed in other PCIe-compliant controllers, computers, or servers. Additional features include:

- Ethernet port configurations—2 RJ45, 1 RJ45 and 1 small form-factor pluggable (SFP), or 2 SFP.
- IRIG-B and Ethernet time synchronization and distribution.
- Direct time synchronization with IRIG-B sources or over Ethernet using the hardware time-stamped Precision Time Protocol (PTP).
- Wide selection of SFP modules available from SEL.
- Wide temperature range of  $-40^{\circ}$  to  $+75^{\circ}\text{C}$  ( $-40^{\circ}$  to  $+167^{\circ}\text{F}$ ).
- Standard PCIe  $\times 4$  half-length, full-height card.



## SEL-3390E4 Ethernet Adapter Card

The SEL-3390E4 provides four copper Ethernet ports, four fiber-optic SFP module ports, or a mix of two copper and two SFP module ports for unmatched versatility. Standard RJ45 connections allow up to Gigabit Ethernet speeds to local equipment for fast data transfer. Fiber-optic ports enable connections over long distances or in EMI-sensitive applications. Additional features include:

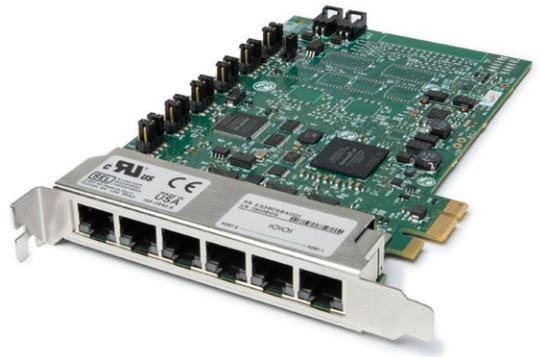
- Four independent 10/100/1000 Mbps Ethernet controllers.
- Port configurations: 4 RJ45, 4 SFP, or 2 RJ45 and 2 SFP.
- Wide selection of SFP modules available from SEL.
- Wide temperature range of  $-40^{\circ}$  to  $+75^{\circ}\text{C}$  ( $-40^{\circ}$  to  $+167^{\circ}\text{F}$ ).
- Standard PCIe  $\times 4$  half-length, full-height card.



## SEL-3390S8 Serial Adapter Card

The SEL-3390S8 provides six EIA-232/-422/-485 serial ports, allowing direct connections to equipment. The use of RJ45 connectors means more connections fit on the standard PCI back plate than when using DB-9 connectors. SEL offers a variety of cables to connect the RJ45 serial ports to standard DB-9 serial and BNC IRIG-B connections. Additionally, each port can be configured to provide +5 Vdc port power to connected devices, such as the SEL-2800 series of fiber-optic transceivers or the SEL-9192 Utility-Grade Modem. Additional features include:

- Six EIA-232/-422/-485 serial ports, 300 bps–921 Kbps.
- IRIG-B time synchronization and distribution.
- Software-selectable +5 Vdc port power.
- Wide temperature range of  $-40^{\circ}$  to  $+85^{\circ}\text{C}$  ( $-40^{\circ}$  to  $+185^{\circ}\text{F}$ ).
- Standard PCIe  $\times 1$  half-length, full-height card.



**SEL SCHWEITZER ENGINEERING LABORATORIES**

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