

# Precise Time Features

[selinc.com/products/comparisons/precise-time](http://selinc.com/products/comparisons/precise-time)

■ Standard feature + Model option

Features	SEL-2401	SEL-2407	SEL-3400	SEL-3401	SEL ICON	SEL-2488
<b>Applications</b>						
Time Source for Substation	■	■	■		■	■
Time Source for Industrial Applications	■	■	■		■	■
Time Source for Land Mobile Radio (LMR) systems and Public Safety Answering Points (PSAPs)						■
Digital Secondary Systems (Sampled Values)					■	■
Time Source for PMU (Synchrophasors IEEE C37.118.1-2011)	■	■	■		■	■
Time Source for Recloser	■					
Time Source for Line Current Differential Protection	■	■	■		■	■
Time Source for Traveling-Wave Fault Location	■	■	■		■	■
Time-Synchronized Event Reporting	■	■	■		■	■
Network Time Synchronization Applications Using the Network Time Protocol (NTP)						■
<b>Time Sources and Time Distribution</b>						
Demodulated IRIG-B Outputs (Quantity)	1	6	12	4+	4	9
Modulated IRIG-B Outputs (Quantity)		1				Up to 4
10 MHz Frequency Outputs (Quantity)						6+
GPS Satellite Tracking	■	■			■	■
GLONASS Satellite Tracking (Verification Only)						■
Satellite Signal Verification						■
Demodulated IRIG-B Input			■	■	■	
Synchronized Pulse Output	■	■			■	■
Network Time Protocol (NTP) Server						■
IEEE 1588-2008 Precision Time Protocol (PTP) Input (With ITU-T G.8275.1 Telecom Profile)					+	+
IEEE 1588-2008 PTP (With IEEE C37.238-2011/2017 Power System and IEC/IEEE 61850-9-3:2016 Power Utility Automation Profiles)					+	+
<b>Features</b>						
Large, 76.2 mm (3.0 in) Tall LED Display for Long-Distance Viewing (61 m [200 ft])				■		
14 mm (0.56 in) Tall Display		■	■			■
Rack-Mount Hardware		■	■	+	■	■
Panel-Mount or Wall-Mount Hardware		■	+	■	■	+
Universal Power Supply		■	■			
Dual, Redundant, Hot-Swappable Power Supplies (High Voltage or Low Voltage)					■	■
Power Over Ethernet (PoE) Power Sourcing Equipment (PSE)					■	
Parallel Redundancy Protocol (PRP) and Ethernet Failover Support						■

# Precise Time Features, Continued

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Features	SEL-2401	SEL-2407	SEL-3400	SEL-3401	SEL ICON	SEL-2488
<b>Features, Continued</b>						
Secure Web Interface for Configuration						■
Serial Ports for Configuration	■	■				
User-Based Accounts					■	■
TCXO Holdover	■	■			■	■
OCXO or DOCXO, High Stability Holdover						+
Cable Delay Compensation			■		■	■ <sup>1</sup>
IEEE C37.90 and IEC 60255 Surge and Environmental Standards Compliance	■	■	■	■	■	■
<b>Accuracy</b>						
Average Accuracy (ns)	±100	±100				±40
Peak Accuracy (ns)	±500	±500			±1,000	±100

<sup>1</sup> SEL-2488 includes antenna cable delay compensation.