

Applications	SEL-3355	SEL-3360E	SEL-3360S	SEL-3350
Computing in Harsh Environments	■	■	■	■
Running Multiple Applications Simultaneously	■	■	■	■
Installing Third-Party Software	■	■	■	■
Embedding Into Automation and Monitoring Systems	■	■	■	■
HMI	■	■	■	■
Security Gateway to Help Satisfy NERC CIP Requirements	■	■	■	■
Network Monitoring and Intrusion Detection	■	■	■	■
Virtualization Server	■	■	■	■
Engineering Access Point	■	■	■	■
IRIG-B Time Distribution and Network Time Protocol (NTP) Conversion	■	■	■	■
Video Surveillance Control and Archiving/Physical Security Monitoring and Notification	■	■	■	■
SEL Secure Kiosk	■	■	■	■
Parallel Redundancy Protocol (PRP)	■	■	■	■

Supported Operating Systems and Software

	SEL-3355	SEL-3360E	SEL-3360S	SEL-3350
SEL Real-Time Automation Controller (RTAC)*	+	+	+	+
SEL BlueFrame™ Operating System (With Kiosk Mode)*	+	+	+	+
SEL Software*	+	+	+	+
Microsoft Windows 10 IoT Enterprise LTSC*	+	+	+	+
Windows Server 2019 Standard*	+	+	+	+
McAfee Whitelist Antivirus*	+	+	+	+

See Page 162 for a complete list of operating system options.

Hardware

	SEL-3355	SEL-3360E	SEL-3360S	SEL-3350
Intel Xeon E3-1505L Quad-Core 2.0 GHz 64-Bit CPU	■	■	■	
Intel Xeon E3-1515M Quad-Core 2.8 GHz 64-Bit CPU	+		+	
Intel Atom x5-E3940 Quad-Core 1.6 GHz 64-Bit CPU				■
4 GB DDR4 ECC PC4-17000 (2,133 MHz) System Memory	■	■	■	
Up to 32 GB DDR4 ECC PC4-17000 System Memory	+	+	+	
8 GB DDR3L ECC PC3-1600 (800 MHz) System Memory				■
Triple Independent Video Displays (2 DVI-D and 1 DisplayPort)	■	■	■	
Single DisplayPort With Audio Output (3 Monitors With DisplayPort Hub)				■
HD Audio Ports, Line In, Line Out, Microphone	■	■	■	

Hardware (Continued)

	SEL-3355	SEL-3360E	SEL-3360S	SEL-3350
4 Rear and 2 Front USB Ports, USB 3.1-Compliant, 2.0 A Max. Current Limit Each	■	■	■	
4 Rear USB 2.0 Ports and 2 Front USB 3.1 Ports, 1.5 A Combined Current on Front Ports, 1.5 A Combined Current on Rear Ports				■
Front 10/100/1000 Mbps Independent Copper Ethernet Ports				■
Rear 10/100/1000 Mbps Independent Ethernet Ports	2	2	2	
Copper RJ45 and Fiber Small Form-Factor Pluggable (SFP) Ports (4 RJ45, 2 RJ45 and 2 SFP, or 4 SFP)				■
EIA-232 Serial Ports, DB-9 Connectors, 300 to 115,000 bps	2	2	2	
EIA-232/422/485 Serial Ports, RJ-45 Connectors, 300 to 115,200 bps, IRIG-B Output				16
IRIG-B Input (on COM1)	■	■	■	
IRIG-B Input and Output (PCIe Card)	+	+		
IRIG-B Input and Output (BNC and Serial)				■
19" Rack-Mount Chassis	■			■
Panel Mount	+			+
Wall-Mount Chassis		■	■	
Conductive Panel Mount		+	+	
PCI/PCIe Expansion Slots	5	2		
Additional EIA-232/422/485 Serial Ports, RJ45 Connectors, 300 to 921,000 bps, IRIG-B Inputs/Outputs, +5 Vdc Power Via PCIe Cards	24	12		
Additional 10/100/1000 Mbps Ethernet Ports, Copper RJ45, or Fiber-Optic SFP LC Connectors Via PCIe Cards	8	8		
Solid-State Drives (2.5" SLC, iMLC, MLC SATA II, 32 GB–7.6 TB Drives)	4	2	2	2
Internal 120/230 Vac, 125/250 Vdc, or 48 Vdc Power Supply	■	■		■
Internal Low-Voltage 24–48 Vdc Power Supply				■
Secondary 120/230 Vac, 125/250 Vdc, or 48 Vdc Power Supply	+		+	
Hot-Swappable Power Supplies	■		■	
External Power Supply			+	
Alarm Contact, Alarm LED, Watchdog Processor	■	■	■	■
Configurable Universal Control Input				■
Programmable Auxiliary Bicolor LEDs	3	3	3	4
Intel Active Management Technology (AMT) v11.8	■	■	■	
Infineon Trusted Platform Module (TPM) v2.0 (Hardware)	■	■	■	■

■ Standard feature + Model option *Factory-orderable operating system

Applications	SEL-3555 SEL-3560E/3560S	SEL-3530	SEL-3530-4	SEL-2240	SEL-3505/3505-3	SEL-3532/3533	SEL-2411	SEL-2411P	SEL-2440
Collect, Scale Meter Data	■	■	■	■	■	■	■	■	
Collect Targets, Contact Input Status, Fault Location	■	■	■	■	■	■			
Enable Fiber-Optic Links	■	■	■	■	■	■	■	■	■
Control Through IED Outputs	■	■	■	■	■	■			
Accept IRIG-B Time Synchronization	■	■	■	■	+	+	■	■	■
Provide IRIG-B Time Synchronization	■	■	■	■	+	+			
Transparent "Port Switch"	■	■	■	■	■	■	■	■	■
Web Server HMI	+	+	+	+	+				
Concentrate IED Data For:									
Distributed Control System (DCS)	■	■	■	■	■	■			
SCADA Master or Remote Terminal Unit (RTU)	■	■	■	■	■	■			
Local or Remote HMI	■	■	■	■	■	■			
Features									
Protocol Redundancy (DNP3 and IEC 60870-5 101/104 Server)	■	■	■	■	■	■			
Primary and Standby LAN Support	■	■	■	■	■	■	■	■	■
Optoisolated Inputs/ Programmable Outputs	■ ¹	+	■	+	+	■ ¹	+	+	+
Rack-Mount or Panel-Mount Hardware	■ ²	+	+	+		■	+	+	+
IEC 61131 Logic Engine	■	■	■	■	■	■			
Cybersecurity Management	■	■	■	■	■	■			
Real-Time Operating System	■	■	■	■	■	■	■	■	■
Serial Port Protocols									
SEL MIRRORING BITS® Communications	■	■	■	■	■	■	■	■	■
Client									
DNP3	■	■	■	■	■	■			
Modbus RTU	■	■	■	■	■	■			
LG 8979	■	■	■	■	■	■			
CP 2179	■	■	■	■	■	■			
SEL Fast Messages, Interleaved With ASCII	■	■	■	■	■	■			
SEL Synchrophasors	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>			
IEC 60870-5 101	■	■	■	■	■	■			
SES-92	■	■	■	■	■	■			
ASCII Flex Parse	■	■	■	■	■	■			

Serial Port Protocols (Continued)

Server

	SEL-3555 SEL-3560E/3560S	SEL-3530	SEL-3530-4	SEL-2240	SEL-3505/3505-3	SEL-3532/3533	SEL-2411	SEL-2411P	SEL-2440
DNP3	■	■	■	■	■	■	+	■	+
Modbus RTU Binary	■	■	■	■	■	■	■	■	■
IEC 60870-5-101	■	■	■	■	■	■			
LG 8979	■	■	■	■	■	■			
SES-92	■	■	■	■	■	■			

Network Protocols

	SEL-3555 SEL-3560E/3560S	SEL-3530	SEL-3530-4	SEL-2240	SEL-3505/3505-3	SEL-3532/3533	SEL-2411	SEL-2411P	SEL-2440
Telnet	■	■	■	■	■	■	■	■	■
FTP							■	■	■
DNP3 LAN/WAN Client/Server	■	■	■	■	■	■	+	■	+
Modbus TCP	■	■	■	■	■	■	■	■	■
IEC 61850 MMS Client/Server	+	+	+	+	+	+	+		+
IEC 61850 GOOSE	+	+	+	+	+	+	+		+
IEC 60870-5-104 Client/Server	■	■	■	■	■	■			
IEEE C37.118 Client/Server	■	■	■	■	■	■			
Flex Parse	■	■	■	■	■	■			
FTP/SFTP Client/Server	■	■	■	■	■	■			
SNMP Client/CDC Type 2 Client/Server	■								
Lightweight Directory Access Protocol (LDAP)	■	■	■	■	■	■			
EtherCAT®	■ ³	■	■	■		■			
EtherNet/IP	■ ³	■	■	■	■	■			
Precision Time Protocol (PTP)/ Network Time Protocol (NTP)	■	■	■	■	■	■			
Simple Network Time Protocol (SNTP)	■	■	■	■	■	■	■	■	■
Parallel Redundancy Protocol (PRP)	■	■	■	■	■	■	■	■	■

■ Standard feature + Model option *f* May be created using settings

¹Alarm contact only ²SEL-3560E/3560S are surface-mount only

³Not supported on SEL-3560S