

The optional OrionLX High Performance CPU provides two to three times more speed and processing power than the standard OrionLX CPU. It is intended for larger automation applications, notably transmission substation applications with large SCADA databases, extensive math and logic, many webpages and encryption and other security features implemented.



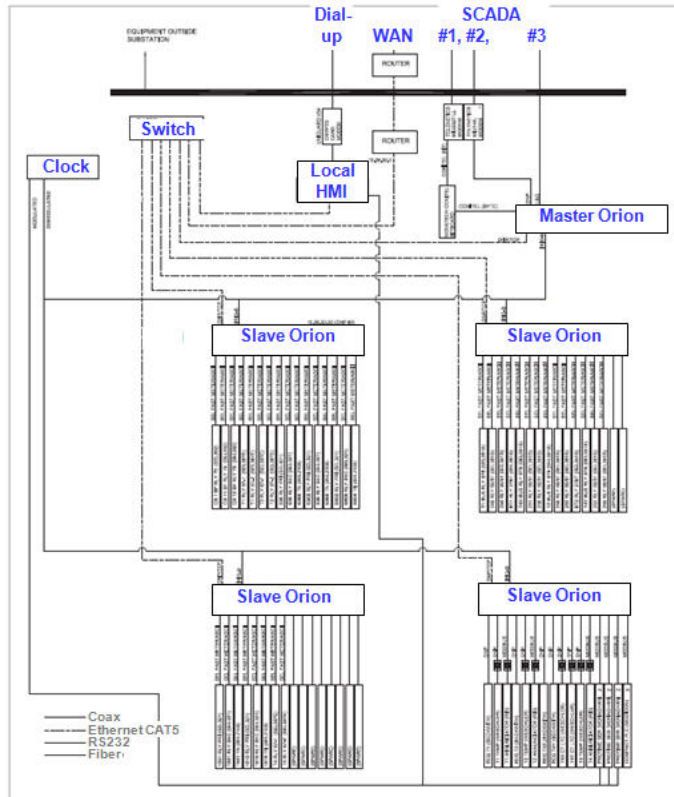
OrionLX Front and Rear View

The table below provides guidelines on where the High Performance CPU should be applied:

Application	Description	Supported by Standard OrionLX 533MHz CPU	Suggested for Optional OrionLX 1.33GHz CPU for higher performance	Requires Optional OrionLX 1.33GHz CPU
<b>All Current OrionLX Applications:</b>				
Substation RTU	Using Master and Slave protocols, Alias, 1mS Time Stamping, etc	x		
Cyber Security Gateway	Using secure HTTPS and SSH connections, firewall configured	x		
Communication Processor	Using SEL® protocols, iDial and Email s/w modules, etc	x		
SOE Archiving and Alarm Annun.	Using Alarm/Archive/Retentive s/w module, Expanded Memory	x		
Math and Logic Processing	Using Math and Logic, Advanced Math and Logic or the new IEC 61131-3 s/w modules	x		
Substation WEBServer HMI	Using .XML Slave s/w module, Expanded Memory. Serving pages to up to three clients	x		
Distribution Automation	Using DA Master s/w module and IEC 61131-3 SFC	x		
Archive Appliance	Using Average Archive s/w module, Advanced Math and Logic s/w module, Expanded Memory	x		
<b>New, Higher Performance Applications:</b>				
SCADA Front-End Processor	Poll data from multiple substation RTUs, scale and consolidate data and present to SCADA	x	x	
Consolidated WEBServer SCADA	Poll data from multiple substation RTUs, use data to animate webpages, serve out webpages with data from multiple substations to up to five clients	x	x	
Cascaded Orions	Two or more Orions working together in a larger application; one OrionLX is the Master which consolidates data from the other Slave OrionLXs * (for the OrionLX to be the Cascaded Master)	x	x*	
Security with VPN	VPN encryption with strong ciphers	x	x	
<b>High-Performance Combinations:</b>				
Combination of any of the higher performance applications above			x	
<b>Support for new Physical Options:</b>				
Third Ethernet Port				x
Direct HMI Video with VGA Port, Audio Out, Mouse and Keyboard USB				x



The OrionLX High Performance CPU was designed for larger, more complicated systems such as the Midwest customer system diagrammed [at right]. This system includes integration of 33 protective relays and 21 other IEDs plus support for a local HMI and three simultaneous SCADA connections (DNP3, L&G 8979 and Conitel).

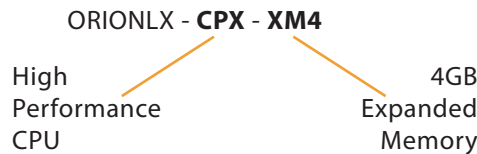


### High Performance CPU Features

1. 1.33GHz Intel CPU, 2.5x faster than the standard 533MHz OrionLX CPU
2. Includes 4GB of Expanded Memory (Note: 1GB and 4GB Expanded Memory are separate options on the 533MHz OrionLX CPU). This 4GB memory with the new CPU supports storage of all non-volatile data:
  - i. User-designed .svg webpages
  - ii. Archived Alarm and SOE points
  - iii. Retentive Alarm points
  - iv. Tags
  - v. .csv files
  - vi. SEL® Full-Length Event Reports and Histories
3. Meets wide temperature requirements (-40C to 70C) under full load in substations without fans or special installation.

### Ordering

The High Performance CPU can be ordered on any new OrionLX and forces the 4GB Expanded Memory option. The resulting part number:



### Retrofit on existing Orion LXs

The High Performance CPU can be factory retrofitted on existing OrionLXs. Please call BJ Weil at (913) 451-1880 for details.

### Contact: