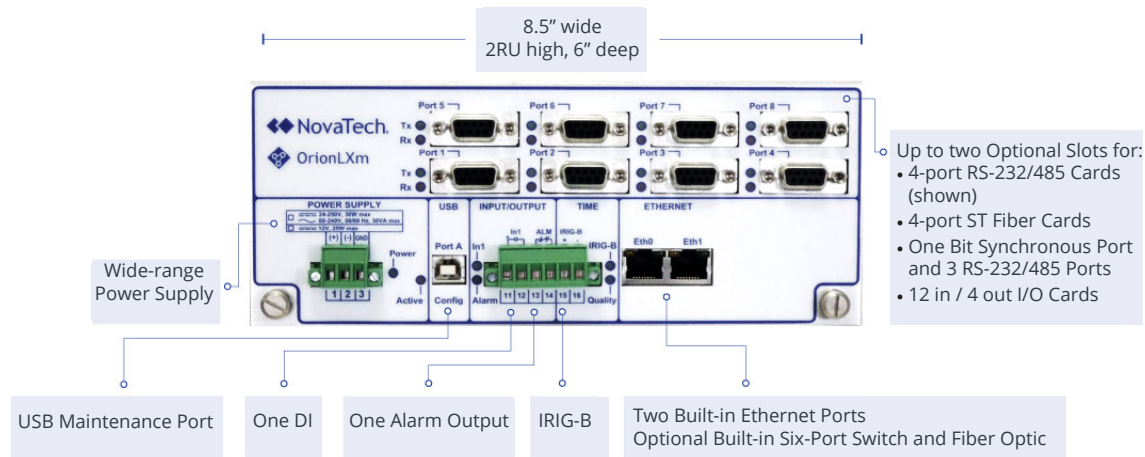# OrionLXm™ Automation Platform

The OrionLXm is a physically smaller OrionLX™ designed for applications requiring fewer connections and less space; typically smaller distribution substations and OEM and pole-top RTU applications.

Key Features

- Runs all Orion software options and protocols - same firmware
- All connections and diagnostic LEDs on the front face
- Universal mounting: panel, 19" rack or DIN-rail
- Complete suite of Cybersecurity features

8.5" wide
2RU high, 6" deep

Up to two Optional Slots for:
- 4-port RS-232/485 Cards (shown)
- 4-port ST Fiber Cards
- One Bit Synchronous Port and 3 RS-232/485 Ports
- 12 in / 4 out I/O Cards

Wide-range Power Supply

USB Maintenance Port | One DI | One Alarm Output | IRIG-B | Two Built-in Ethernet Ports Optional Built-in Six-Port Switch and Fiber Optic

Specifications

Environmental
Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +85°C
Operating Humidity	5 to 95% non-condensing

Performance/Capabilities
IED/SCADA Points	20,000
DNP3 Connections to IEDs	128
Refresh Rate	< 2 sec; typical

Processor
CPU	800MHz
Events Storage (non-volatile)	4GB

Physical Connections
IRIG-B	Input: Unmodulated or Modulated Twisted Pair
Ethernet	2 RJ45 10/100 copper
Maintenance Port	USB Type B Connector
Discrete Input	LV: 12-24V dc nominal HV: 48-125V dc nominal
Alarm Contact	Form B relay

Power Supply
Input Voltage	#1: 24-250V dc ± 15%, 120-240V ac ± 15%, 50-60Hz #2: 12V dc (10.5-15.0V dc)
Power Required	**10 Watts (typical)** 15 Watts (max)

Mounting Options

Horizontal Panel Mount - Conventional

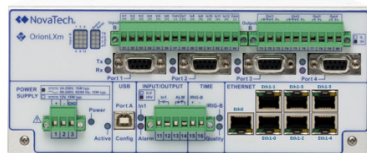Horizontal Panel Mount - Top of panel and bottom of panel variations

Vertical Panel Mount

Horizontal DIN Rail   19" Rack Mount

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Optional Built-in Six-Port Switch and Fiber Optic

The OrionLXm can be ordered with a six-port unmanaged switch, or with one port either Multimode or Single Mode fiber optic. Ordering options below:
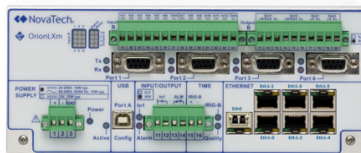

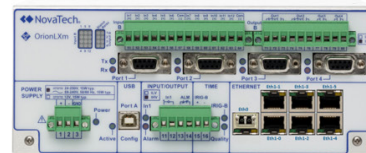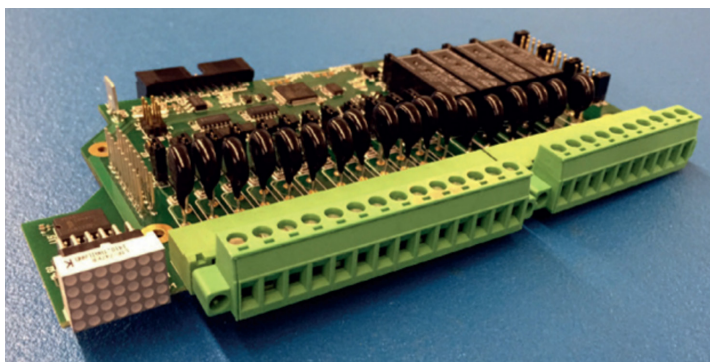| **Option 1E6E** **E0: Copper** **E1: Six-port Copper Switch**	**Option 1M6E** **E0: Fiber (Multimode)** **E1: Six-port Copper Switch**	**Option 1S6E** **E0: Fiber (Single Mode)** **E1: Six-port Copper Switch**
E0: One port with Copper Ethernet TCP/IP 10BaseT/100BaseTX (NIC #1)	E0: One port with Multimode Fiber Ethernet TCP/IP 100FX 1310nm, max 2km LC Connector (NIC #1)	E0: One port with Single Mode Fiber Ethernet TCP/IP 100FX 1310nm, max 30km LC Connector (NIC #1)
E1: Six-port unmanaged switch with Copper Ethernet TCP/IP 10BaseT/100BaseTX (NIC #2)	E1: Six-port unmanaged switch with Copper Ethernet TCP/IP 10BaseT/100BaseTX (NIC #2)	E1: Six-port unmanaged switch with Copper Ethernet TCP/IP 10BaseT/100BaseTX (NIC #2)

4-port ST Fiber Card
Specifications
- Four serial fiber ports
- ST Port
- 800-850nm
- Software settings for Point-to-Point or Multidrop (echo)

12-in / 4-out I/O Card
Input Specifications
- Screw terminal connectors, #12-24 gauge wire
- "IL" jumper: 12-48V dc nominal
- "IH" jumper: 125-250V dc nominal
- Time stamped to +/-10ms

Output Specifications
- Screw terminal connectors, #12-24 gauge wire
- Two Form A (Normally Open) dry contacts
- Two Form C (Normally Open/Normally Closed) dry contacts
- Make 30A, carry 10A
- Outputs can be monitored for open / closed status

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