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 OrionLX software options and protocols - same “code base”
- All connections and diagnostic LEDs on the front face
- Universal mounting: panel, 19” rack or DIN-rail
- Complete suite of Cyber Security features

**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
- Ethernet: Twisted Pair
- Maintenance Port: USB Type B Connector
- Discrete Input: LV: 12-24V dc nominal
- Alarm Contact: HV: 48-125V dc nominal, 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

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![NovaTech Logo]
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
  - E0: One port with Copper Ethernet TCP/IP 10BaseT/100BaseTX (NIC #1)
  - E1: Six-port Unmanaged Switch with Copper Ethernet TCP/IP 10BaseT/100BaseTX (NIC #2)

**Option 1M6E**
- **E0:** Fiber (Multimode)
- **E1:** Six-port Copper Switch
  - E0: One port with Multimode Fiber Ethernet TCP/IP 100FX LC Connector (NIC #1)
  - E1: Six-port Unmanaged Switch with Copper Ethernet TCP/IP 10BaseT/100BaseTX (NIC #2)

**Option 1S6E**
- **E0:** Fiber (Single Mode)
- **E1:** Six-port Copper Switch
  - E0: One port with Single Mode Fiber Ethernet TCP/IP 100FX LC Connector (NIC #1)
  - 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