

# ON-5524E-2F Datasheet

ON-5524E-2F

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Product Model                  | Optech Network Solutions ON-5524E-2F                 |
| Product Type                   | 6-Port Unmanaged Industrial Ethernet Switch          |
| Total Ports                    | 6                                                    |
| Ethernet Ports                 | 4 × 10/100Base-T(X) RJ45                             |
| Fiber Ports                    | 2 × 100Base-FX                                       |
| Fiber Type                     | Single-Mode / Multimode                              |
| Fiber Connector Options        | SC / ST                                              |
| Ethernet Transmission Distance | Up to 100 m                                          |
| Multimode Fiber Distance       | Up to 2 km                                           |
| Single-Mode Fiber Distance     | Up to 30 km                                          |
| Transmission Speed             | Up to 100 Mbps                                       |
| Multimode Fiber Wavelength     | 1310 nm                                              |
| Multimode Tx Power             | -14 / -20 dBm                                        |
| Multimode Rx Sensitivity       | -32 dBm                                              |
| Multimode Fiber Parameters     | 50/125 μm, 62.5/125 μm                               |
| Single-Mode Fiber Wavelength   | 1310 nm                                              |
| Single-Mode Tx Power           | -8 / -15 dBm                                         |
| Single-Mode Rx Sensitivity     | -34 dBm                                              |
| Single-Mode Fiber Parameters   | 9/125 μm                                             |
| MAC Table Size                 | 2K entries                                           |
| Packet Buffer Size             | 1 Mbit                                               |
| Switching Capacity             | 1.2 Gbps                                             |
| Jumbo Frame Support            | Up to 9,216 bytes                                    |
| Network Standards              | IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az, 802.3ab |
| QoS                            | Port-based QoS                                       |
| Loop Detection                 | Supported                                            |
| SCADA Communication            | Modbus/TCP                                           |

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|-------------------------------------------------|----------------------------------------------------------|
| <b>NMS Communication</b>                        | SNMP                                                     |
| <b>Ethernet Connectors</b>                      | 4 × RJ45                                                 |
| <b>Fiber Connectors</b>                         | 2 × SC/ST fiber optic connectors                         |
| <b>Terminal Block</b>                           | 6-pin screw terminal block with relay                    |
| <b>LED Indicators</b>                           | P1, P2, P-Fail, Loop Detection                           |
| <b>Ethernet LED Indicators</b>                  | Link/Activity, Speed                                     |
| <b>Power Input</b>                              | 12–48 VDC                                                |
| <b>Input Voltage Range</b>                      | 8.4–52.8 VDC                                             |
| <b>Power Configuration</b>                      | Redundant dual inputs                                    |
| <b>Maximum Power Consumption</b>                | 4 W                                                      |
| <b>Fault Output</b>                             | 1 × Relay Output                                         |
| <b>Enclosure</b>                                | IP30 metal shell                                         |
| <b>Mounting</b>                                 | DIN-Rail / Wall Mount                                    |
| <b>Dimensions (W × H × D)</b>                   | 43 × 120 × 84 mm                                         |
| <b>Operating Temperature – Standard</b>         | -10°C to 60°C                                            |
| <b>Operating Temperature – Wide Temperature</b> | -40°C to 75°C                                            |
| <b>Storage Temperature</b>                      | -40°C to 75°C                                            |
| <b>Operating Humidity</b>                       | 10–95% RH, non-condensing                                |
| <b>Storage Humidity</b>                         | 10–95% RH, non-condensing                                |
| <b>Protection</b>                               | Reverse Polarity Protection, Overload Current Protection |
| <b>MTBF</b>                                     | 144,890 hours                                            |
| <b>Safety Certifications</b>                    | IEC/EN 60950, UL60950, UL508, Class 1 Division 2, ATEX   |
| <b>EMI</b>                                      | FCC Part 15 Subpart B Class A, EN 55011/55022 Class A    |
| <b>EMS</b>                                      | EN61000-4-2/-3/-4/-5/-6/-8, Level 3                      |
| <b>Shock</b>                                    | IEC 60068-2-27                                           |
| <b>Freefall</b>                                 | IEC 60068-2-32                                           |
| <b>Vibration</b>                                | IEC 60068-2-6                                            |