DA50N

Secure Edge Networking Gateway

RL RED LION™ a spectris company

FLEXEDGE™ Intelligent Edge Automation Platform

RED LION'S DA50N MODULAR NETWORKING GATEWAY PROVIDES SECURE EDGE CONNECTIVITY FOR INDUSTRIAL APPLICATIONS.

In a market of ever-changing requirements and increasing rates of innovation, the need for equipment that can quickly adapt to meet these needs is critical. The modular design of the DA50N ensures communications capabilities can easily be added or modified as application needs change, future-proofing installations.

The FlexEdge Secure Edge Networking Gateway can be managed locally through direct device connection or remotely via SixView Manager® software, our flexible remote management software package designed to help increase productivity and reduce costs for organizations. With a web-based console and customized dashboard, users are able to remotely access, configure and manage critical device information from a central location.

APPLICATIONS

- ◢ Oil & Gas
- ◢ Factory Automation
- ◢ Water/Wastewater
- ◢ Maritime
- ◢ Alternative Energy
- ◢ Industrial Internet of Things (IIoT)

PRODUCT HIGHLIGHTS

- ◢ Intuitive LED Status Ring
- ◢ Secure Network Routing and Communication
- ◢ LAN-to-LAN or LAN-to-WAN Connectivity
- ◢ Intrusion Protection Through Stateful Firewall
- ◢ NAT Support For 1-to-1 and 1-to-Many Translations
- ◢ 25 VPN Connections for Secure Remote Access
- ◢ Rugged Industrial Design in a Compact Package

FEATURES & BENEFITS

MODULAR DESIGN
- ◢ Easily Add Wireless Communications to Any Application

POWERFUL ADVANCED NETWORKING FEATURES
- ◢ Remote TCP/IP Based Capabilities
- ◢ Integrated Switching and Routing
- ◢ DHCP Server/DHCP Relay
- ◢ Serial-to-IP
- ◢ SNMP V1, V2, V3
- ◢ IPSEC and SSL VPN Tunnels
- ◢ Port Forwarding
- ◢ Stateful Firewall
- ◢ Access Control List (ACL)

DESIGNED FOR INDUSTRIAL ENVIRONMENTS, CERTIFIED FOR EASE OF MIND
- ◢ -40 To 75 °C Operating Temperature
- ◢ UL Class 1, Division 2 and ATEX/IECEx Certifications

POWER INPUT

Input Voltage: 12-24 VDC +/-15%

Must use a Class 2 circuit according to National Electrical Code (NEC), NFPA-70 or Canadian Electrical Code (CEC), Part I, C22.1 or a Limited Power Supply (LPS) according to IEC 60950-1 or Limited energy circuit according to IEC 61010-1

INPUT VOLTAGE	12 V	24 V
Typ. Power DA50N Controller only	2.5 W	2.6 W
Max Power DA50N Controller only	3.0 W	3.1 W
Max Power DA50N Controller, with Sled	5.6 W	5.7 W

Wire Strip Length: 0.3" (7.5 mm)

Wire Gauge Capacity: 12 to 24 AWG (3.31 to 0.20 mm^2) copper wire only

COMMUNICATION PROPERTIES

Ethernet Interface:
    Two (2) 10/100 BASE-T(X) RJ45 ports (1500 Vrms Network Isolation)
Serial Interface: Two Serial Ports with Individual Port Isolation
    One (1) RS-232 Serial RJ12 115200 Bps
    One (1) RS-485/RS-422 Serial RJ45 115200 Bps
USB Device Port:
    One (1) Isolated USB Type B Port Complies with USB Specification 2.0 (Full Speed)

MEMORY

Removable Media:
    MicroSD Slot Accepts Class 5 Or Better Card Up to 256 GB capacity. Industrial Grade MicroSD Card Suggested
On-Board User Memory:
    1 GB of Non-volatile Flash Memory

NETWORKING CAPABILITIES

Tunneling:
    IPsec and SSL
IP:
    NAT, port forwarding, dynamic DNS, DHCP Stateful inspection firewall, IP transparency
Routing Protocols:
    OSPF, BGP, RIP, VRRP Encapsulation Protocols
Serial Capabilities:
    Serial-to-IP, Out of Band Management

CERTIFICATIONS & COMPLIANCES

CE Approved
    EN 61326-1 Immunity to Industrial Locations
    Emission CISPR 11 Class A
    IEC/EN 61010-1
    RoHS Compliant
ATEX Approved
    II 3 G Ex ec IIC T4 Gc
    DEMKO 20 ATEX 2268X
IECEx Approved
    IECEx UL 20.0007X
UL Listed: File #E317425
Rugged IP30 enclosure

ENVIRONMENTAL

Operating Temperature Range: -40 to 75 °C
Storage Temperature Range: -40 to 85 °C
Vibration to IEC 60068-2-6: Operational 5-500 Hz, 2 g
Shock to IEC 60068-2-27: Operational 15 g
Operating and Storage Humidity: 0 to 85% max. RH noncondensing
Altitude: Up to 2000 meters
Installation Category II, pollution degree 2 as defined in IEC/EN 60664-1

MECHANICAL

Polycarbonate
Case Dimensions:
    Height: 6.86" (17.4 cm)
    Width: 2.03" (5.2 cm)
    Depth: 5.11" (13.0 cm)
    Weight: 13 oz (404.3 g)
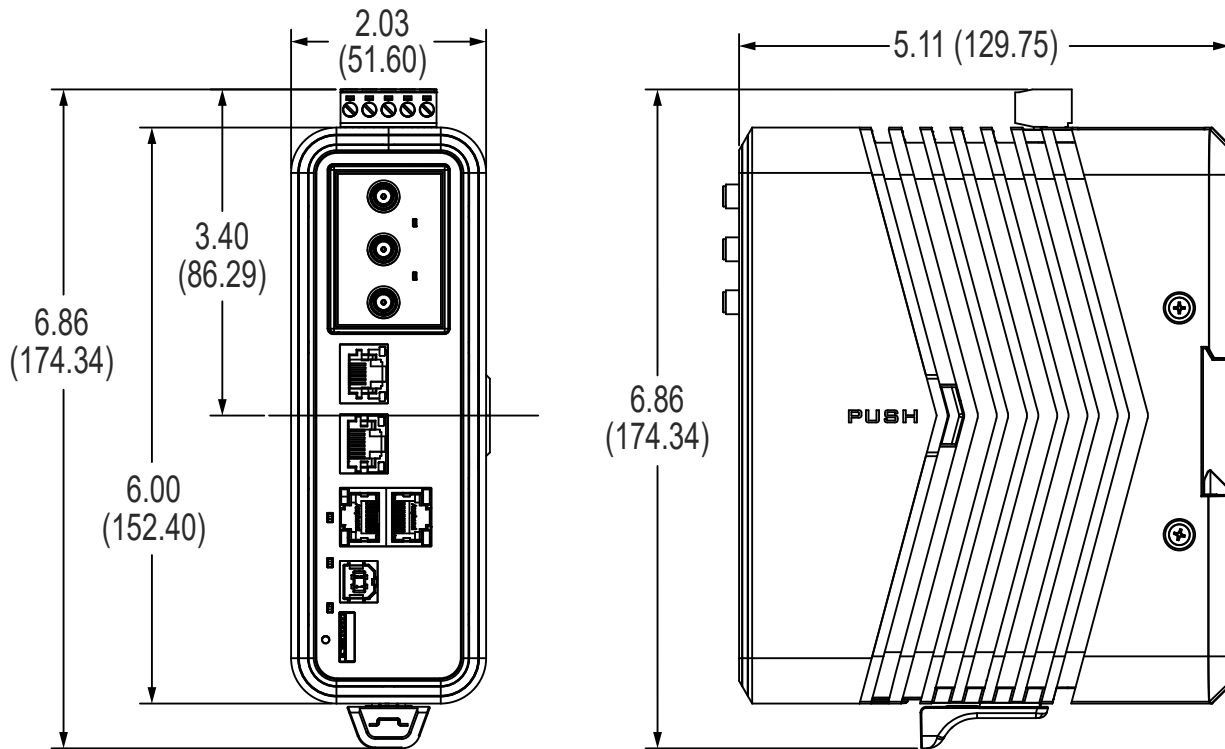Mounting: DIN Rail
Battery: Lithium Coin Cell

WARRANTY

3 years on design and manufacturing defects

Specifications are subject to change. Visit www.redlion.net for more information

DIMENSIONS In inches (mm)

ORDERING GUIDE

Type	Part Number	Description
Controller	DA50N-0B-NN-0000-000	Secure Edge Networking Gateway
Sled	DA-S00-CL9C4S-AM-000	4G LTE (Cat. 4) Cellular Sled for North America (AT&T, Others)
Sled	DA-S00-CL9C4S-VZ-000	4G LTE (Cat. 4) Cellular Sled for North America (Verizon)
Sled	DA-S00-CL9C4S-EU-000	4G LTE (Cat. 4) Cellular Sled for EU, SE Asia, and Asia Pacific
Sled	DA-S00-WF10N0-AM-000	802.11 b/g/n Wi-Fi Sled
Sled	DA-S00-PN40U4-00-000	Single USB 2.0 Host Port Sled

*Dashes in listed model numbers added to improve readability, and are not included in orderable part numbers
See software manual for details on sled operation

RL
RED LION™
a spectris company

EXCELLENCE. REDEFINED.
www.redlion.net

+1 (717) 767-6511

As global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit www.redlion.net.

AMERICAS
SALES@REDLION.NET

ASIA-PACIFIC
ASIA@REDLION.NET

EUROPE, MIDDLE EAST, AFRICA
EUROPE@REDLION.NET