DA70A

3-Sled Modular IIoT Gateway with Scalable I/O



▲ FLEXEDGE Intelligent Edge Automation Platform

RED LION'S DA70A IS AN ALL-IN-ONE INDUSTRIAL DATA ACQUISITION AND EDGE PROCESSING GATEWAY THAT SIMPLIFIES THE MONITORING AND MANAGMENT OF CONNECTED ASSETS AND PROCESSES

- ▲ Modular architecture to easily add cellular, Wi-Fi, serial, or USB connectivity
- ▲ Easily add up to 10 I/O modules including: analog I/O, digital I/O, universal input, relays and PID control
- Powerful networking at the core including: routing, NAT, VPN and stateful firewall
- Gateways can be upgraded to support protocol conversion, advanced automation features and Crimson Control (IEC 61131-3)
- Supports up to 10 simultaneous protocol conversions between over 300 industrial drivers (optional)
- Real-time logging to microSD card, USB drive, or FTP (optional)
- Industrial construction for reliable operation with intuitive LED status ring











▲ Ordering Guide

MAIN UNIT

PART NUMBER	DESCRIPTION	SW GROUP
DA70A0FNNNNNN010	3-Sled 2 RS232 ports and 1 RS485 port Networking Gateway	Group 1
DA70A0FNNNNNN020	3-Sled 2 RS232 ports and 1 RS485 port Protocol Gateway	Group 2
DA70A0FNNNNNN030	3-Sled 2 RS232 ports and 1 RS485 port Adv IIoT Gateway	Group 3
DA70A0FNNNNNN040	3-Sled 2 RS232 ports and 1 RS485 port Adv Automation Controller	Group 4
DA70A0GNNNNNN010	3-Sled 1 RS232 port and 2 RS485 ports Networking Gateway	Group 1
DA70A0GNNNNNN020	3-Sled 1 RS232 port and 2 RS485 ports Protocol Gateway	Group 2
DA70A0GNNNNNN030	3-Sled 1 RS232 port and 2 RS485 ports Adv IIoT Gateway	Group 3
DA70A0GNNNNNN040	3-Sled 1 RS232 port and 2 RS485 ports Adv Automation Controller	Group 4

ACCESSORIES

DESCRIPTION
4G LTE (CAT4) Cellular Sled for AMER (AT&T, Generic)
4G LTE (CAT1) Cellular Sled for AUS (Telstra)
4G LTE (CAT4) Cellular Sled for AMER (Verizon)
4G LTE (CAT4) Cellular Sled for EMEA, SAARC, APAC
802.11n Wi-Fi Sled
1 Port USB 2.0 Host Sled
Dual RS232 Ports Sled (Isolated)
Dual RS485 Ports Sled (Isolated)
Mixed RS232/RS485 Ports Sled (Isolated)
6 Isolated Universal Analog Inputs
8 Analog Outputs
8 Digital Inputs, 8 Digital Relay Outputs
8 Digital Inputs, 8 Digital Outputs
Single PID, Relay and Analog Outputs
Single PID, SSR and Analog Outputs
Dual PID, Relay Outputs
Dual PID, SSR Outputs
Dual PID, SSR Outputs, and Heater Current Monitor

See software manual for details on sled operation.

■ DA70A Ordering Guide Cont. and Specifications

SOFTWARE GROUPS

	GROUP 1 NETWORKING	GROUP 2 PROTOCOL	GROUP 3 ADV IIOT	GROUP 4 CONTROLLER
CONFIGURATION				
Web GUI	Υ	Υ	Υ	Υ
Crimson	Υ	Υ	Υ	Υ
NETWORKING				
Firewall	Υ	Υ	Υ	Υ
RADIUS Auth.	Υ	Υ	Υ	Υ
Routing	Υ	Υ	Υ	Υ
NAT	Υ	Υ	Υ	Υ
IP Fallback	Υ	Υ	Υ	Υ
VPN Client/Server	Υ	Υ	Υ	Υ
AUTOMATION				
300+ Drivers		Υ	Υ	Υ
IIoT Connectors		Υ	Υ	Υ
OPC UA		Υ	Υ	Υ
SQL Sync			Υ	Υ
Data Logging			Υ	Υ
Virtual HMI			Υ	Υ
Advanced Web Server			Υ	Υ
IEC CONTROL				
Crimson Control				Υ

▲ Specifications

Power Requirements

Supply Voltage: 12-24 VDC +/-15%, Class 2 source

INPUT VOLTAGE	12 V	24 V
Typ. Power DA70A Only	4 W	4.5 W
Max Power DA70A Only	4.5 W	5 W
Available Power for Modules (Maximum of 10 modules)	43 W	45 W
Max Power DA70A, with Sleds & USB	16 W	17 W
Max Power DA70A with full accessories	59 W	62 W

Battery

3 V Lithium coin cell.

Memory

On Board User Memory: 1 GB of non-volatile Flash memory. Memory Card: microSD slot accepts Class 5 or better microSD cards up to 256 GB capacity. FAT32, industrial grade.

Communication Properties

USB Device Port: One (1) Isolated USB Type B Port Complies with USB Specification 2.0 (Full Speed)

USB Host Port: One (1) USB Type A Port Complies with USB Specification 2.0 (Full Speed)

Hardware overcurrent protected (0.5 A max per port)

Ethernet Ports: Two (2) 10BaseT / 100BaseTX RJ45 ports (1500 Vrms Network Isolation)

Serial Ports: Three (3) Serial Ports with Individual Port Isolation available in these two configurations:

DA70A0F	2 - RS-232 ports (RJ12 connectors) 1 - RS-485/422 port (RJ45 connector)
DA70A0G	1 - RS-232 port (RJ12 connector) 2 - RS-485/422 ports (RJ45 connectors)

Environmental

Operating Temperature: -40 to 75 °C Storage Temperature: -40 to 85 °C

Operating and Storage Humidity: 0 to 85% max. RH

noncondensing

▲ DA70A Specifications Cont. and Dimensions

Vibration to IEC 60068-2-6: Operational 5-500 Hz, 2 g Shock to IEC 60068-2-27: Operational 15 g

Altitude: Up to 2000 meters

Installation Category II, Pollution Degree 2 as defined in IEC/EN 60664-1.

Certification & Compliance

CE Approved

EN 61326-1 Immunity to Industrial Locations

Emission CISPR 11 Class A

IEC/EN 61010-1

RoHS Compliant

ATEX Approved

DEMKO 20 ATEX 2268X

IECEx Approved

IECEx UL 20.0007X

UL Hazardous: File # E317425

Rugged IP30 enclosure

Connections

Wire Strip Length: 0.3" (7.5 mm)

Wire Gauge Capacity: 12 to 24 AWG (3.31 to 0.20 mm²) copper wire only

Construction

Metal and plastic enclosure with IP30 rating.

Weight: 2 lb 2.5 oz (978.05 g)

Mounting

DIN Rail: Attaches to standard "T" profile DIN rail according to EN50022 - 35 x 7.5 and 35 x 15

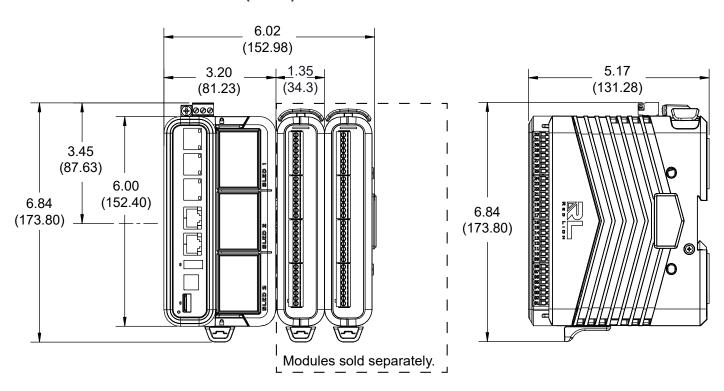
Warranty

3 years on design and manufacturing defects.

Specifications are subject to change.

Visit www.redlion.net for more information.

▲ Dimensions In inches (mm)







Red Lion has been delivering innovative solutions to global markets since 1972 through communication, monitoring and control for industrial automation and networking - enabling companies worldwide to gain real-time data visibility that drives productivity. Red Lion is part of Spectris plc, the productivity enhancing instrumentation and controls company.

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