RA70K

Keyed Remote Access Router

The RA70K Keyed Remote Access Router provides a secure way to remotely diagnose and configure connected automation equipment, including HMIs, PLCs and, drives. The key enables local staff to control the operation of the device to ensure maximum security.

Monitor and manage connected assets from anywhere with RLConnect24, a cloud-based platform that makes accessing remote equipment quick. In addition, the RLConnect24 portal can store, check , and visualize operational data.

- Key switch operation for:
  Enabling secure remote access
  Enabling data and alarm communication
  No communication

- Initial product setup in under 2 minutes

- Secure connection via VPN (PPTP, IPSec, L2TP, OpenVPN)

- RS232/485 access via virtual COM port

- Optional cellular support

- 4 Digital Inputs, 2 Digital Outputs with on-board I/O

- Integrated 4-port Ethernet switch

- Verizon certified and AT&T compatible options

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LISTED
PROG. CNTLR.
E482663

UKCA

CE

Ordering Guide

Remote Access Routers

Part Number	Description
RA70KR0010V1S0D0	Keyed Remote Access Router with LAN/WAN and Data Monitoring, RS-232 Port, Multi VPN including RLConnect24, IPSec, L2PT, PPTP, SIMPLY.connect Capable, DIN Rail Mount (US Server)
RA70KR0000V1S0D0	Keyed Remote Access Router with LAN/WAN and Data Monitoring, Multi VPN including RLConnect24, IPSec, L2PT, PPTP, DIN Rail Mount (US Server)
RA70KR4A00V1S0D0	Keyed Remote Access Router with LAN/WAN and Data Monitoring, 4G LTE (Americas, AT&T, Verizon), Multi VPN including RLConnect24, IPSec, L2PT, PPTP, DIN Rail Mount (US Server)
RA70KR4E00V1S0D0	Keyed Remote Access Router with LAN/WAN and Data Monitoring, 4G LTE (Europe/SAARC), Multi VPN including RLConnect24, IPSec, L2PT, PPTP, DIN Rail Mount (US Server)

www.redlion.net

Specifications

Power Input
Input Voltage: 10 to 30 VDC
Current Consumption: Max 500 mA @ 24 V

Communication Properties
Ethernet Interfaces:
  LAN: Four (4) 10/100 BASE-T(X) RJ45 ports
  WAN: One (1) 10/100 BASE-T(X) RJ45 port
Serial Interface: (Model Specific)
  RS-232/485 (software-switchable)
USB Host Port:
  One (1) USB Host 2.0 port

Memory
Removable Media:
  SD card SDHC max 32 GB; FAT/FAT32

On-Board I/O
Digital Inputs: Four (4), 10 to 30 VDC (electrically isolated), (low 0 to 3.2, high 8 to 30 VDC)
Digital Outputs: Two (2), 10 to 30 VDC (electrically isolated), to a maximum of 1.5 A per output

Networking Capabilities
VPN Support
  VPN Protocols: IPsec/PPTP/OpenVPN, 64 Tunnel
  Encryption Method: Blowfish, AES, DES/3DES
  Encryption Algorithms: MD5, SHA1
  Authentication: Pre-Shared Key, X.509
Network Security
  Firewall: 1:1, IP-Filter, port forwarding, stateful inspection
  IP Router: NAT-IP, TCP/IP routing, IP forwarding
  Services: DHCP client, NTP client
  Time Synchronization: NTP server

Cellular Capabilities (Model Specific)
Compatible Countries: United States
Compatible Cellular Carriers: AT&T
Certified Cellular Carriers: Verizon
Dual SIM Card Slots: SIM size 2FF
Antenna Connectors: Two (2) SMA Connectors
FCC: Contains FCC ID: R17LE910NA

Technology	Bands	Frequencies	Antenna Configuration
LTE	2, 4, 5, 12, 13, 14, 66 & 71	600/700/850/ 1700/1900 MHz	MIMO Required
HSxPA*	2, 4 & 5	850/1900 MHz	

* While 3G is still available.

Compatible Countries: Europe
Dual SIM Card Slots: SIM size 2FF
Antenna Connectors: Two (2) SMA Connectors
TAC: 35162207

Technology	Bands	Frequencies	Antenna Configuration
LTE	1, 3, 7, 8, 20 & 28A	700/800/900/1800/ 2100/2600 MHz	MIMO Required
HSxPA *	1, 3, 8	900/1800/2100 MHz	Div. Support
GSM/GPRS/ EDGE *	3, 8	900/1800 MHz	

* While 3G is still available.

Environmental
Operating Temperature Range: -40 to 75 °C
Storage Temperature Range: -40 to 85 °C
Operating and Storage Humidity: 0 to 95% max. RH non-condensing
Real-time Clock: Date and time are maintained for up to 7 days in the event of power failure

Certification & Compliance
UL Listed: File # E482663
CE mark does not apply to models with AT&T cellular option. As such, these modems must not be operated or commissioned in the European Economic Area (EEA).

Construction
Metal enclosure with IP30 rating (when all ports are populated).
Weight: 1.4 lb (650 g)

Mounting
DIN Rail: Attaches to standard "T" profile DIN rail according to EN50022 - 35 x 7.5 and 35 x 15
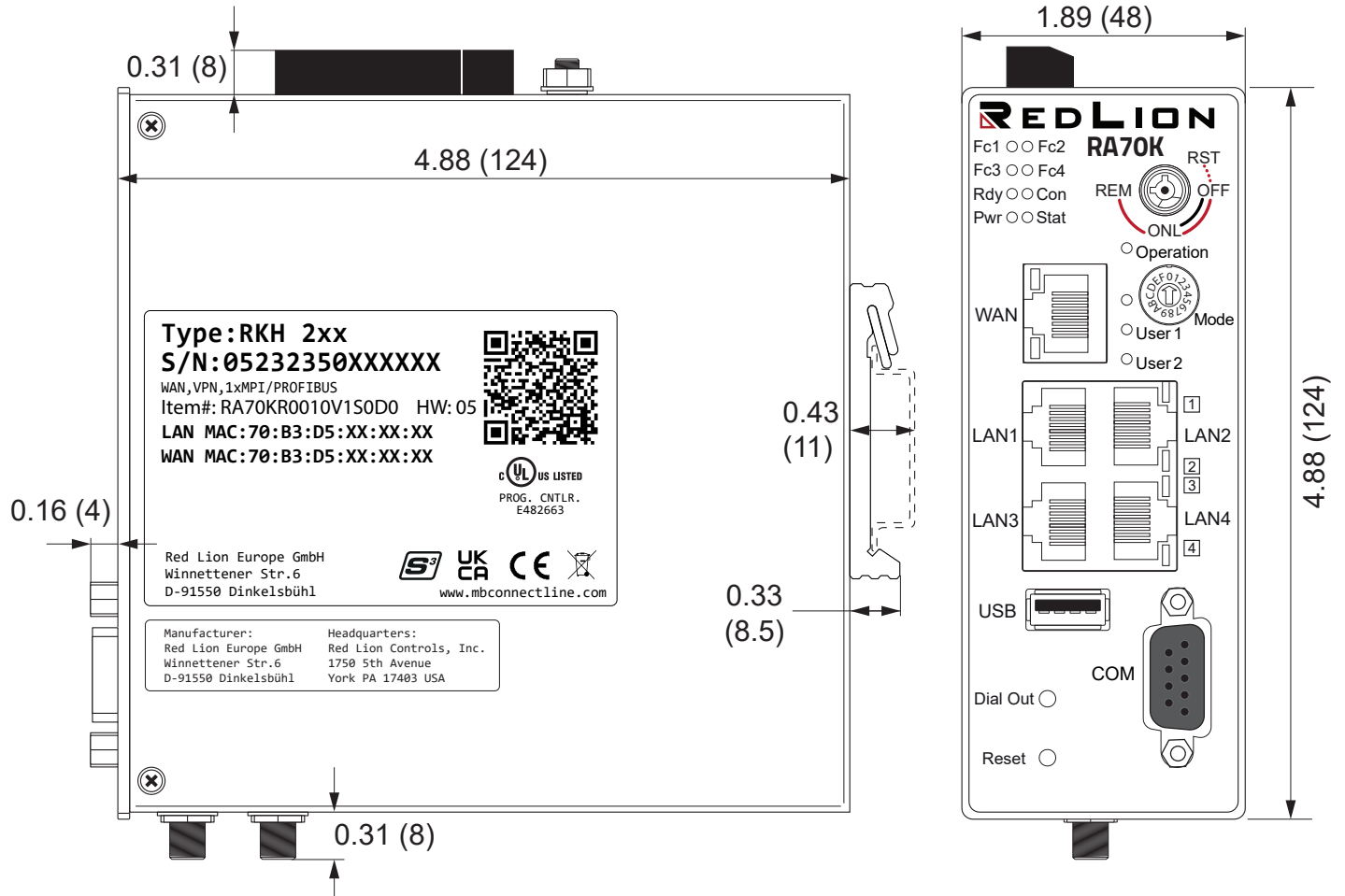
Warranty
1 year on design and manufacturing defects.

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

Dimensions In inches (mm)

0.31 (8)

4.88 (124)

Type:RKH 2xx
S/N:05232350XXXXXX
WAN,VPN,1xMPI/PROFIBUS
Item#: RA70KR0010V1S0D0   HW: 05
LAN MAC:70:B3:D5:XX:XX:XX
WAN MAC:70:B3:D5:XX:XX:XX

US LISTED
PROG. CNTLR.
E482663

Red Lion Europe GmbH
Winnettener Str.6
D-91550 Dinkelsbühl

UK
CA

CE

www.mbconnectline.com

Manufacturer: Headquarters:
Red Lion Europe GmbH   Red Lion Controls, Inc.
Winnettener Str.6   1750 5th Avenue
D-91550 Dinkelsbühl   York PA 17403 USA

0.16 (4)

0.43 (11)

0.33 (8.5)

0.31 (8)

1.89 (48)

RedLion **RA70K**

Fc1 ○○ Fc2
Fc3 ○○ Fc4
Rdy ○○ Con
Pwr ○○ Stat

REM
ONL
RST
OFF

○ Operation
○
○ User 1   Mode
○ User 2

WAN

LAN1   LAN2
LAN3   LAN4

1
2
3
4

USB

COM

Dial Out ○

Reset ○

4.88 (124)

www.redlion.net

Red Lion is focused on being THE Industrial Data Company™. We empower industrial organizations around the world to unlock the value of data by developing and manufacturing innovative products and solutions to access, connect and visualize their information. Red Lion's global manufacturing and support facilities serve customers in major industry segments with solutions for cloud connectivity, edge intelligence, industrial Ethernet switches, panel meters and operator panels. Red Lion makes it easy to gain real-time data visibility that drives productivity. Red Lion is part of Spectris plc, the experts in providing insight through precision measurement.