

# 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



## Ordering Guide

### REMOTE ACCESS ROUTERS (AMER)

PART NUMBER	DESCRIPTION
RA70KR0010V1SDO	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)
RA70CR0000V1SDO	Keyed Remote Access Router with LAN/WAN and Data Monitoring, Multi VPN including RLConnect24, IPsec, L2PT, PPTP, DIN Rail Mount (US Server)
RA70KR4A00V1SDO	Keyed Remote Access Router with LAN/WAN and Data Monitoring, 4G LTE (Americas, AT&T), Multi VPN including RLConnect24, IPsec, L2PT, PPTP, DIN Rail Mount (US Server)
RA70KR4E00V1SDO	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)

### REMOTE ACCESS ROUTERS (EUROPE/SAARC)

PART NUMBER	DESCRIPTION
RA70KR0010V1SDA	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 (EU Server)
RA70CR0000V1SDA	Keyed Remote Access Router with LAN/WAN and Data Monitoring, Multi VPN including RLConnect24, IPsec, L2PT, PPTP, DIN Rail Mount (EU Server)
RA70KR4A00V1SDA	Keyed Remote Access Router with LAN/WAN and Data Monitoring, 4G LTE (Americas, AT&T), Multi VPN including RLConnect24, IPsec, L2PT, PPTP, DIN Rail Mount (EU Server)
RA70KR4E00V1SDA	Keyed Remote Access Router with LAN/WAN and Data Monitoring, 4G LTE (Europe/SAARC), Multi VPN including RLConnect24, IPsec, L2PT, PPTP, DIN Rail Mount (EU Server)

# ▲ RA70K Specifications

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### 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

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, 17	700/850/1700/1900 MHz	MIMO Required
HSxPA	2, 5	850/1900 MHz	Div. Support
GSM/GPRS/EDGE		850/1900 MHz	

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	800/900/1800/2100/2600 MHz	MIMO Required
HSxPA	1, 8	900/2100 MHz	Div. Support
GSM/GPRS/EDGE	3, 8	900/1800 MHz	

### 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

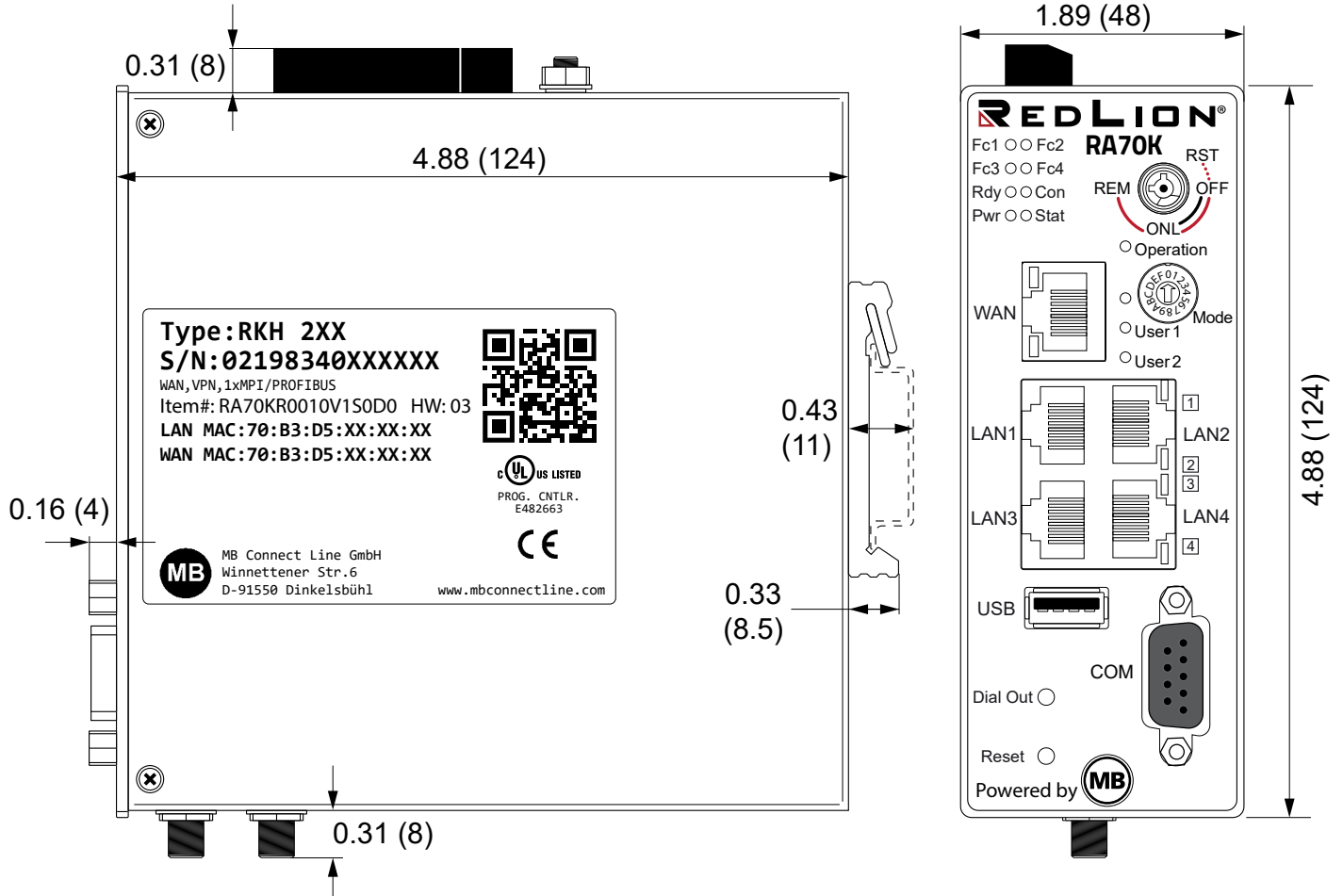
1 year on design and manufacturing defects.

Specifications are subject to change.

Visit [www.redlion.net](http://www.redlion.net) for more information.

# RA70K Dimensions

## Dimensions In inches (mm)



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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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