

## ▶▶▶ Secure Industrial Router

Red Lion's RAM 6021 industrial routers provide secure network communication between local and wide area networks.

With a rugged design and flexible platform, the routers provide the ability to remotely connect, monitor and control assets across a variety of industrial applications. Add in robust security features, which include a stateful firewall, NAT translations and VPN connections, and the RAM 6021 delivers a compact all-in-one solution that seamlessly connects to existing Ethernet infrastructures, including networks with Modbus and DNP3 enabled devices.



### APPLICATIONS

- > Factory Automation
- > Oil & Gas
- > Water/Wastewater

### PRODUCT HIGHLIGHTS

- > 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
- > Built-in Modbus and DNP3 gateways
- > Rugged industrial design in a compact package

### FEATURES & BENEFITS

- > Built-in security and routing protects against unwanted intrusion
  - Intrusion protection and secure data access
  - IPsec and SSL VPN tunnels
  - Port forwarding
  - Stateful firewall
  - Packet filtering
  - Access Control List (ACL)
- > Flexible all-in-one platform reduces complexity
  - Remote TCP/IP based capabilities
  - Integrated switching and routing
  - Serial-to-IP conversion
  - Access IP and serial devices simultaneously
- > Rugged, compact design deploys easily in space-constrained locations
  - -40 to +85°C operating temperature
  - DIN-rail mounting
- > Remote monitoring and control eliminates site visits
  - Instant access to SCADA data
  - Modbus and DNP3 (serial and IP) protocol support
  - Simple integration for complex configurations
  - ID routing to existing Modbus hardware
- > Web-based management simplifies deployment and configuration
  - Remote diagnostics and troubleshooting
  - Key metric reporting

# RAM 6021 Specifications

## TUNNELING

IPsec and SSL

## IP

NAT, port forwarding, dynamic DNS, DHCP  
 Stateful inspection firewall, IP transparency  
 Routing Protocols  
 OSPF, BGP, RIP, VRRP  
 Encapsulation Protocols  
 GRE

## PROTOCOL GATEWAY

Modbus RTU/TCP/ASCII/RTU  
 DNP3 - slave

## ETHERNET INTERFACE (10/100 AUTO-SENSING)

5x RJ45 (port 5 - WAN/LAN capability)

## DATA THROUGHPUT

LAN ports: 100Mbps  
 WAN port: 45Mbps

## SERIAL INTERFACE

1x RS-232 Serial DB9 115200bps

## USB INTERFACE

1x USB 2.0 mini configuration port

## MECHANICAL

Dimensions: steel 120 x 96 x 51 mm (4.7" x 3.77" x 2.0")  
 Weight: 544g (1.2 lbs)

## REDUNDANT POWER INPUT

4-pin screw terminal  
 Side mounted 2.5mm barrel connector  
 8-30 Vdc (12 Vdc nominal)  
 Input current (max): 150mA

## ENVIRONMENTAL

Operating temperature: -40° to +85°C  
 Shock: IEC60068-2-27  
 Vibration: IEC60068-2-6  
 Humidity: 5 to 95% non-condensing

## CERTIFICATION

CE, EMC: FCC, part 15 and Industry Canada, ICES-003  
 Hazardous locations: Class I, Div. 2, Groups A, B, C, D, ISA 12.12.01  
 Electrical safety: UL508/CSA22.2/14 (CUL)

## INPUTS & OUTPUTS

1x digital output  
 1x digital/analog input (one active)

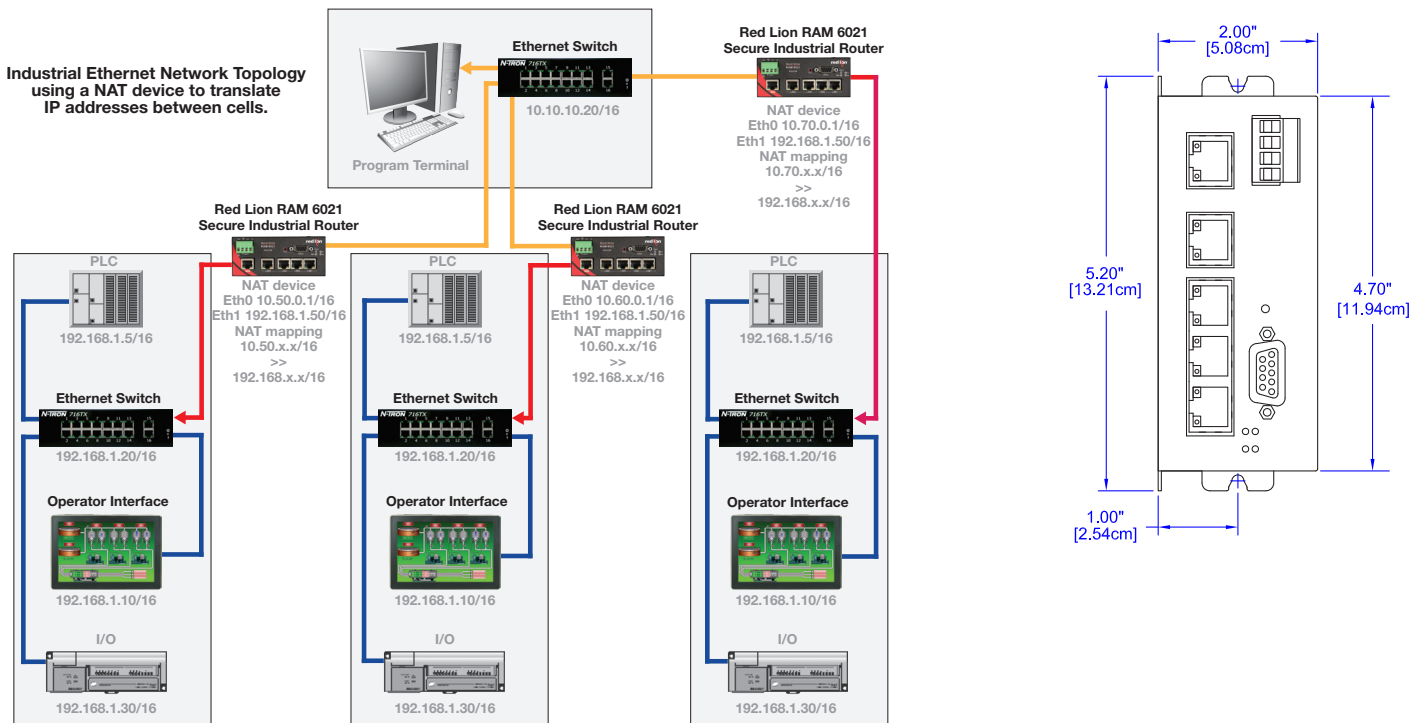
## WARRANTY

3 years on design and manufacturing defects

All specifications are subject to change. Consult the company website for more information.

## ORDERING GUIDE

PART NUMBER	DESCRIPTION
RAM-6021	Secure router with 5 Ethernet ports, 1 serial port, Modbus/DNP3 gateway
ET-PS-024-02	DIN rail 2 amp power supply
FPSALACADAPTER2	2.5mm barrel power supply



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