

# IndustrialPro® SN 6000 3G Cellular Routers

Sixnet® Networking Series



## ▶▶▶ Rugged Ethernet & Serial Cellular Routers

Red Lion's Sixnet® series IndustrialPro® SN 6000 3G cellular routers with 3G network support provide rugged, reliable communication for monitoring and controlling remote assets and processes in extreme conditions.

IndustrialPro SN 6000 3G industrial cellular routers offer secure and reliable wireless communication to remote assets via reliable 3G connectivity with network fallback and are software upgradeable to 4G LTE. Featuring a web-based event engine that can trigger alarms or send SMS text messages based on real-time operational data, IndustrialPro SN 3G routers can perform reliable local control and alert personnel of critical events. With built-in Ethernet and serial ports, IndustrialPro SN 3G routers easily integrate with existing equipment enabling remote monitoring and control for M2M applications in industries including oil and gas, water/wastewater, utility, transportation and mining, and can be later upgraded to 4G LTE capability as application requirements change.



### APPLICATIONS

- > Mining
- > Oil & Gas
- > Transportation
- > Utility
- > Water/Wastewater

### PRODUCT HIGHLIGHTS

- > Reliable 3G Cellular Connectivity, upgradeable to 4G LTE via software license
- > Multiple Communication Ports
- > Routing Capabilities Provide Secure, Reliable Communication
- > Event Engine can Trigger Alarms and Send SMS Messages

### FEATURES & BENEFITS

- > Multiple Communication Ports
  - One RS-232 serial port and up to five Ethernet ports provide seamless connectivity to remote devices
- > Rugged, Industrial Design
  - Reliable operation in extreme environments
  - -40° to 75°C operating temperature\*
  - DIN-rail and panel mounting options
- > Out-Of Band Management (OOBM)
  - Secure remote CLI access via serial port
  - Pre-loaded with many console port configurations
- > Secure Ethernet Connectivity
  - Routing capabilities for reliable communication
  - Stateful firewall, SSL, GRE and VPN services reduce the risk of unwanted access
- > Advanced Event Engine Functionality
  - Easily configure control engine via drop-down menus
  - Trigger alarms and send SMS messages based on operational data

industrial  
networking



# IndustrialPro SN 6000 3G Specifications

## WIRELESS INTERFACE

(AT) HSPA+ with fallback to GSM  
 (GE) HSPA+ with fallback to GSM  
 (EU) HSPA+ with fallback to GSM  
 4G LTE can be unlocked via software license key

## PROGRAMMABLE PLATFORM

Configurable Events: up to 99 events can be triggered by over 200 system variable which in turn can send text messages  
 Software Development Kit (SDK)  
 C/C++/Perl

## SYSTEM PERFORMANCE

32-bit ARM9 400 MHz CPU  
 512 MB NAND  
 128 MB RAM

## TUNNELING

IPsec, GRE, OpenVPN

## ROUTING PROTOCOLS

OSPF, BGP, RIP

## CLUSTERING

VRP

## IP

NAT, Port Forwarding, Dynamic DNS, DHCP  
 Stateful Inspection Firewall, IP Transparency

## CONNECTORS

Ethernet: One (1) or five (5) 10/100Base-T RJ-45 ports  
 Serial: One (1) RS-232 (DB9) 115,200bps  
 USB: One (1) USB 2.0 (mini)  
 Antennas: Two (2) SMA connectors (antenna, diversity)

## POWER INPUT

Input Voltage: 8-30 VDC (12 or 24 VDC nominal)  
 Standby Power: 1.4W - 4.0W (typical)  
 Transmitting:  
 6701: 2.6W - 6.9W  
 6721: 4.3W - 8.7W  
 6901: 2.6W - 6.9W  
 6921: 4.3W - 8.7W  
 Heat dissipation: 30BTU/hour max

## MECHANICAL

SN-6x01  
 Dimensions: 120 x 96 x 32 mm (4.7" x 3.77" x 1.25")  
 Weight: 453g (1 lb)  
 SN-6x21  
 Dimensions: 120 x 96 x 51 mm (4.7" x 3.77" x 2.0")  
 Weight: 500g (1.1 lbs)

## ENVIRONMENTAL

Operating Temperature: -40° to +75°C\*  
 Shock: IEC60068-2-27  
 Vibration: IEC60068-2-6  
 Humidity: 5 to 95% non-condensing  
 Ingress: IP30 protection

## CERTIFICATION

EMI/EMC:  
 Emissions: FCC, Part 15 and Industry Canada, ICES-003; Class A; EN55022, IEC61000-6-4  
 Immunity: IEC61000-6-2 (EN61000-4-2,3,4,5,6,8)  
 Hazardous Locations: Class I, Div. 2, Groups A, B, C, D, ISA 12.12.01  
 Electrical safety: UL508/CSA22.2/14 (CUL); IEC61010-1  
 Carrier Specific Approvals  
 RoHS compliant

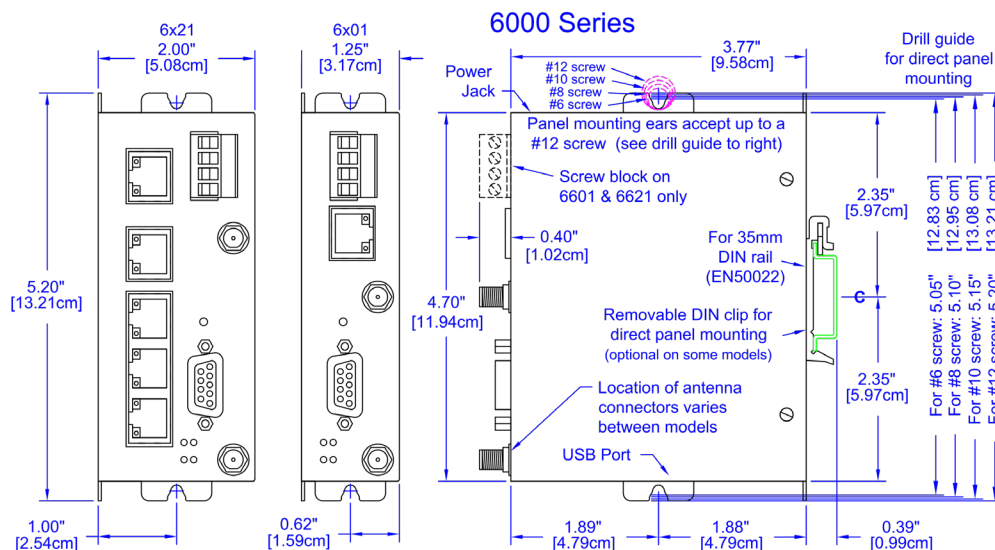
## WARRANTY

3 years on design and manufacturing defects

Specifications are subject to change. Visit [www.redlion.net](http://www.redlion.net) for more information.

\* See *Hardware Manual for thermal considerations*

## DIMENSIONS in inches (cm)



# IndustrialPro SN 6000 3G Specifications

## ORDERING GUIDE

PART NUMBER	SERIAL RS-232	ETHERNET 10/100	CELLULAR	POWER CONNECTOR	DEFAULT CARRIERS
SN-6701-AT-3G	1	1	3G GSM	4-Pin Terminal Block	(AT) AT&T America
SN-6721-AT-3G	1	5	3G GSM	4-Pin Terminal Block	
SN-6701-GE-3G	1	1	3G GSM	4-Pin Terminal Block	(GE) Generic America
SN-6721-GE-3G	1	5	3G GSM	4-Pin Terminal Block	
SN-6901-EU-3G	1	1	3G GSM	4-Pin Terminal Block	(EU) Europe and Asia
SN-6921-EU-3G	1	5	3G GSM	4-Pin Terminal Block	

- Notes: 1. See Frequency Specifications table for compatibility.  
 2. AT only for use with AT&T.  
 3. AT/GE models are for use in the Americas only.  
 4. EU (Europe/Asia) model is not supported in the Americas.

## FREQUENCY SPECIFICATIONS

Americas Models (AT/GE)

PART NUMBER	BANDS	FREQUENCIES	ANTENNA CONFIGURATION
HSPA+	1,2,5,6	800/850/1900/2100 MHz	Diversity Support
Fallback GSM/GPRS/EDGE	-	850/900 MHz	-

Europe and Asia

PART NUMBER	BANDS	FREQUENCIES	ANTENNA CONFIGURATION
HSPA+	1,2,5,8	850/900/1900/2100 MHz	Diversity Support
Fallback GSM/GPRS/EDGE	-	850/900/1800/1900 MHz	-

## ACCESSORIES

PART NUMBER	DESCRIPTION
<b>Antennas</b>	
ANT-G30B108111	2G/3G/4G Low-Profile Direct Perm. Mount, 1 SMA Antenna
ANT-GA110101111	2G/3G/4G LTE 13" Whip Magnetic Mount, IP65, 1 SMA Antenna
ANT-MA741ABI001	2G/3G/4G MIMO Direct Permanent Mount, IP67, 2 SMA Antenna
<b>Power Supplies and Adapters</b>	
NTPS-24-1-3	NTPS-24-1-3 Power Supply
FPSALACADAPTER2	12V 18W 1.5A AC-DC Power Supply Adapter

