

RAM 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

SELECTABLE IIOT CLOUD PLATFORMS*

Amazon®—AWS™ IoT
 AT&T®—M2X
 Autodesk®—Fusion Connect
 Cumulocity
 LEC—IQ Web SCADA
 Microsoft—Azure®
 Nokia—IMPACT
 Set-Point Control—IPwebcontrol
 Skkyne®—SkkyHub™
 Telenor—Connexion Cloud Connect
 Telit®—deviceWISE®

PROGRAMMABLE PLATFORM

Configurable Events: up to 99 events can be triggered by over 200 system variable which in turn can send text messages or control I/O
 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

VRRP

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
 WAN capability on port 5
 Serial: One (1) RS-232 (DB9) 115,200bps
 USB: One (1) USB 2.0 (mini)
 Antennas: Three (3) SMA connectors (antenna, diversity, GPS [only available on 69xx model])

INPUTS & OUTPUTS

Input: One (1) digital/analog
 Output: One (1) digital (open-collector)

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: 30 BTU/hour max

MECHANICAL

RAM-6x01
 Dimensions: 120 x 96 x 32 mm (4.7" x 3.77" x 1.25")
 Weight: 453g (1 lb)
 RAM-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

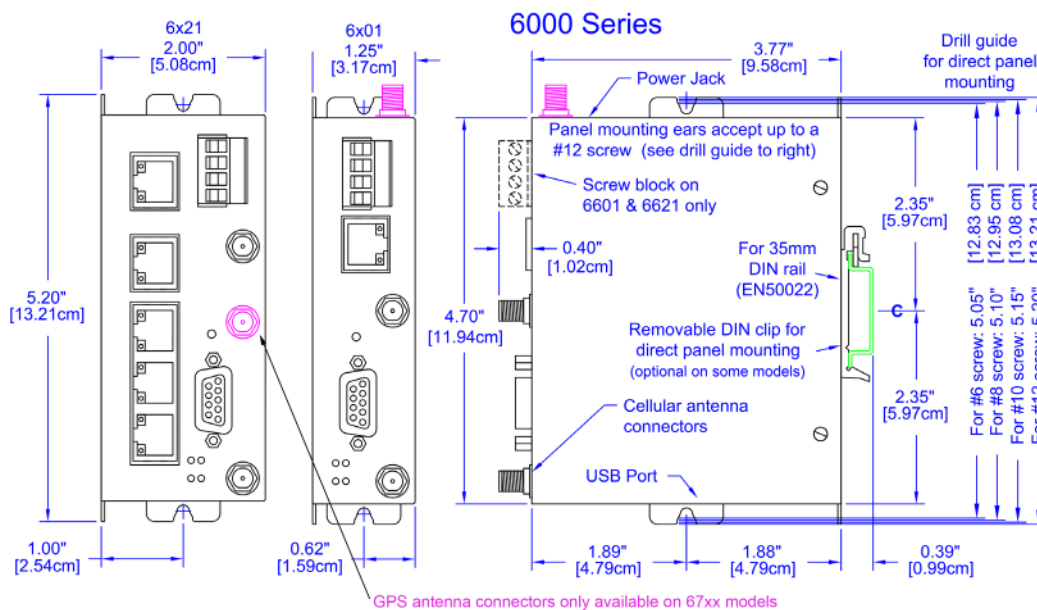
3 years on design and manufacturing defects

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

*Monthly service fees may be required for cloud platform access, not all platforms client are preloaded.

**See Hardware Manual for thermal considerations.

DIMENSIONS in inches (cm)



ORDERING GUIDE

PART NUMBER	SERIAL RS-232	ETHERNET 10/100	CELLULAR	POWER CONNECTOR	DEFAULT CARRIERS
RAM-6701-AT-3G	1	1	3G GSM	4-Pin Terminal Block	(AT) AT&T America
RAM-6721-AT-3G	1	5	3G GSM	4-Pin Terminal Block	
RAM-6701-GE-3G	1	1	3G GSM	4-Pin Terminal Block	(GE) Generic America
RAM-6721-GE-3G	1	5	3G GSM	4-Pin Terminal Block	
RAM-6901-EU-3G	1	1	3G GSM	4-Pin Terminal Block	(EU) Europe and Asia
RAM-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
Antennas	
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-MA710AABI001	Antenna 2G/3G/4G LTE MIMO plus GPS direct permanent mount, IP67 with 3 SMA connectors
ANT-MA741ABI001	2G/3G/4G MIMO Direct Permanent Mount, IP67, 2 SMA Antenna
Power Supplies and Adapters	
NTPS-24-1-3	NTPS-24-1-3 Power Supply
FPSALACADAPTER2	12V 18W 1.5A AC-DC Power Supply Adapter



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