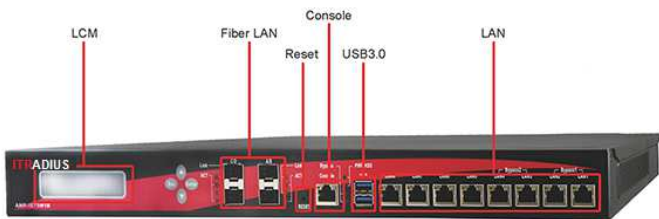


DATASHEET

IT-RIB75N2A

INTRODUCTION

Multifunctional hardware at the right Price!
The IT-RIB75N2A Maximizes the diversity and use of applications, bringing together the benefits of the multiple forms of captive portal, AAA server, advertising and other services synchronized and unified with a powerful 3rd Generation Intel Core i7 Processors i7-3770 platform, 16GB of memory and eight (8) x RJ45 for Copper Ethernet and 2 x SFP Slot LAN Mbps ports and 2-pair LAN bypass.



ESPECIFICATIONS

System	
CPU	Intel 3rd Gen. Core i / Pentium LGA1155 Processors
Chipset	Intel B75
Memory	2 x 240-pin DIMM support DDR3 1600/1333MHz up to 16GB
BIOS	AMI
WatchDog Timer	Software programmable 1~255 sec.

Video

Video Interface	VGA(on board pin header)
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Ethernet

Chipset	<ul style="list-style-type: none"> IT-RIB75N2A : Intel I210-AT(GbE) x 8 Intel 82576EB x 2(Fiber port)
Connector	<ul style="list-style-type: none"> IT-RIB75N2A: 8 x RJ45 for Copper Ethernet 2 x SFP Slot
LAN bypass	2-pair

Storage

SATA	1 x SATA III, 1 x SATA II
CF	1 x Compact Flash Type II socket supports UDMA
HDD Bay	2 x 2.5" HDD Bay

I/O

Console port	1 x RJ45 for console
USB port	2 x USB 3.0 ports
LCM	16 x 2 characters LCD module with 4 buttons
GPIO	8-bit GPIO (4 in, 4 out) on board pin header

Power Requirement

Power Requirement	Internal 250W 80 PLUS(Bronze) power supply, input range 100V AC 60Hz~230V AC 50Hz
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Software	
OS Support	<ul style="list-style-type: none"> • ITRADIUS v. 1.0 Tempesta.

Mechanical & Environment	
Dimension	400 mm x 371.5 mm x 44 mm
Operating Temp.	0~40°C (32~104°F)
Storage Temp.	-20~80°C (-4~176°F)
Relative Humidity	0~90%, @ 40°C, non-condensing
Safety	CE, FCC class A

Packing List	
	• 1 x IT-RIB75N2A System
	• 1 x Quick Manual
	• 2 x SATA cable
	• 1 x CD Utility
	• 1 x Console cable(RJ45)
	• 1 x USA or Europe or Japan or UK power cord
	• 2 x Rack bracket
	• 1 x Box Packing
	• 14 x Screw for bracket (for Rack + HDD bracket)
	• 1 x Power Cord hook

TECHNICAL SPECIFICATIONS

- ◆ ITRADIUS v. 1.0 Tempesta.
- ◆ AAA Server (FreeRADIUS V.3.0.10)
- ◆ Supports NAS (Network Access Server) Virtual and Physical.
- ◆ Ability to deploy a captive portal / Hotspot with multiple sites (CoovaChilli rolling release V 1.3.1).
- ◆ Support for local storage on SQL Database.
- ◆ Asynchronous WEB administration.

- ◆ Support for deploying virtual network interfaces,
- ◆ Connectivity over VPN and SSH Tunnels.
- ◆ Certification authority and issue of certificates on demand.
- ◆ VLAN and IP v4 Support.

FUNCTIONAL CHARACTERISTICS

- ◆ Support from various identity providers:
 - Local DB
 - ODBC
 - OPENID
 - LDAP
 - ADC (Microsoft Windows Server version 2003 a 2016)
- ◆ Dictionary system for NAS auto configuration (Network Access Server): HP, CISCO, ARUBA NETWORKS, amongst others.
- ◆ Real time system statistics and status.
- ◆ Automatic subscription updates.
- ◆ Custom system of groups and attributes that Define user properties.
- ◆ Ability to synchronize multiple instances with a master AAA server.
- ◆ Communication methods with the NAS (Network Access Server):
 - External Encryption or authentication Layer:
 - TLS
 - LEAP
 - FAST
 - TTLS
 - EAP (PEAP)

- Internal Encryption:
 - MSCHAP V.2.0
 - MD5
 - GTC
- ◆ Variations of Captive Portals / Hotspot:
 - Standard Captive Portal: User name and Password (Local DB, ODBC, LDAP y ADC).
 - Direct Step Captive Portal.
 - Captive portal with Access Code (PIN).
 - Captive portal for Phantom users with delegated authority.
 - Captive portal with data Capture (forms).
 - Captive portal with External Sync, (Open ID: Google, Facebook, Twitter).
 - Captive portal with MAC Recognition. (RADA - RADIUS Authenticated Device Access).
 - Captive portal with app verification. (Requires a confirmation of installation of the specific application).
- ◆ Exclusion system of domain names and IP addresses through Garden in ny captive portal methods / Hotspot.
- ◆ Custom theme uploading (CSS) in any Captive portal / Hotspot method.

VALUE ADDED CHARACTERISTICS

- ◆ Integration with External applications through public API, protocol HTTPS in JSON format.

- ◆ Ability to Support embedded and synchronized applications through Python Wheels.
- ◆ On demand advertising injection through **ADFLY**
- ◆ Custom advertising splash system.
- ◆ Custom Widget system for captive portal views.

MITIGATED VULNERABILITIES

- ◆ Out of the way Attacks “Off-path”
<https://arstechnica.com/security/2016/08/linux-bug-leaves-usa-today-other-top-sites-vulnerable-to-serious-hijacking-attacks/>
- ◆ Provides users without privileges unrestricted Access to the root.
<https://arstechnica.com/security/2016/10/most-serious-linux-privilege-escalation-bug-ever-is-under-active-exploit/>
- ◆ An unprivileged user can copy, modify or destroy a hard drive.
<https://threatpost.com/cryptsetup-vulnerability-grants-root-shell-access-on-some-linux-systems/121963/>
- ◆ Unauthorized messages can be sent.
<http://thehackernews.com/2017/02/python-java-ftp-protocol-injection.html?m=1>
- ◆ Avoid Firewall defenses.
<http://thehackernews.com/2017/02/python-java-ftp-protocol-injection.html?m=1>

USE ORDERING INFORMATION

Ordering Information	
IT-RIB75N2A	ITRADIUS Networking Rackmount Server with PCH B75, 8 x RJ45 GbE LAN (2-pair bypass) and 2 x Fiber expansion feature

IDEAL PRODUCT USE:

◆ Hospitals	◆ Internet Kiosks
◆ Libraries	◆ Dorm Rooms
◆ Restaurants	◆ Churches
◆ Coffee shops	◆ Offices
◆ Condominiums	◆ Events
◆ Tourist Attractions	◆ Convention Centers
◆ Airports	◆ Hotels
◆ Stadiums	◆ Public Parks
◆ Universities	◆ Concerts
◆ College Campuses	◆ Movie Theatres
◆ Shopping Centers	◆ Night Clubs
◆ Bus Terminals	◆ Gyms
◆ Internet Service Providers (ISP's)	◆ Any other locations where Captive Portals may be utilized.