

# **MEDIA WIZARD CHASSIS**

WIZ-2016

WIZ-2004

WIZ-2001

**User Manual**

**WizLAN**<sub>Ltd.</sub>

WizLAN Ltd.: P.O. Box 7948, Haifa 31078 Israel  
Tel: +972-4-8572199 Fax: +972-4-8572204  
e-mail: [sales@wizlan.com](mailto:sales@wizlan.com)  
<http://www.wizlan.com>

# 1. General Description

---

The Media Wizard product line provides a comprehensive LAN connectivity center of multi-media, multi-protocol network applications. Utilizing a highly versatile, modular and open design, the Media Wizard product line enables installers and systems integrators to configure optimal solutions for network connectivity requirements.

The wide variety of modules includes Media converters, repeaters, switches and multiplexes for various protocols such as 10/100/1000M Ethernet, Token Ring, FDDI, ATM, IBM3270, AS/400 and more. Each module operates individually and receives power supply and optional management services from the chassis.

The Media Wizard incorporates a high level of reliability due to the optional power supply redundancy and independent operation of the modules. The modules are interchangeable between the different chassis, enabling cost-effective configurations and flexibility upon network changes and growth, thus protecting the investment.

With a wide variety of networking hardware being used today, rack space is at a premium. The capability of providing a high number of connections of multiple protocols over various media in a single chassis is necessary for efficient network operation. The Media Wizard makes this possible by saving you rack space and main outlets, while providing an easily serviceable and maintainable device platform.

The Media Wizard modular chassis come in three different sizes:

- WIZ-2016, a 16 slot + one NMS slot, 19" rack mountable unit 3U high unit
- WIZ-2004, a four slot, 19" rack mountable unit 1.5U high unit
- WIZ-2001, single-slot standalone unit 1U high unit

**The WIZ-2016 is available in two versions: \***

1. A regular version WIZ-2016 that provides 22PU (Power Units).
2. A high power version WIZ-2016/HP that provides 32PU (Power Units).

The high power unit enables full chassis capacity with the new high-density modules.

Both WIZ-2016 models have an optional redundant power supply (RPS). The appropriate RPS should be ordered separately. The RPS are field-upgradeable or can be pre-ordered and installed in the factory.

**The WIZ-2004 is available in two versions: \***

1. WIZ-2004 with single power supply provides 8PU.
2. WIZ-2004R with dual/redundant power supply provides 16PU.

The dual/redundant power supplies, for both the WIZ-2016 and WIZ-2004 chassis, operate in the preferred load sharing mode that extends the reliability and eliminates switching problems.

**The WIZ-2001 is available in two versions:**

1. WIZ-2001, stand-alone chassis, has a single power supply that provides 2PU.
2. WIZ-2001/DC is a DC version of the WIZ-2001, accepting 36-72VDC as the main input voltage to the chassis. This version addresses the "Telco" and special installation needs.

All the Media Wizard power supplies (AC input) support wide range main line input in the range of 90-260 VAC 47-440Hz as listed in the technical specification section.

The WIZ-2016 and the WIZ-2004 use DC fans for better ventilation.

**Important:** It is required to fill all the empty slots at the front of the chassis with blank panels (product number WIZ-100/400) to ensure proper airflow through the modules and chassis.

\* 48VDC versions of the WIZ-2016 / WIZ-2004 chassis are available upon request.

## Features

- Modular chassis
- Three size compact chassis
- Multi-media, multi-protocol support
- Central SNMP management (for WIZ-2016/2004)
- Universal power supply
- DC options
- Redundant power supply options
- Slot independent, hot swappable modules
- Rack-space saving
- Plug & play simplicity

## 2. Power Considerations

---

The chassis provides certain amount of power for the operation of the installed modules. The amount of power available in the chassis is given in Power Units (PU). The Power Units (PU) available per each chassis is specified in the Technical Specification section of this document and in the Media Wizard data sheet.

The amount of power required for each of the Media Wizard modules is specified in its manual (in PUs).

**Important:** It is recommended that the total sum of power required for all the modules installed in a chassis will not exceed 90% of the power available in the chassis (in PUs).

If such extreme case is required please consider the following options:

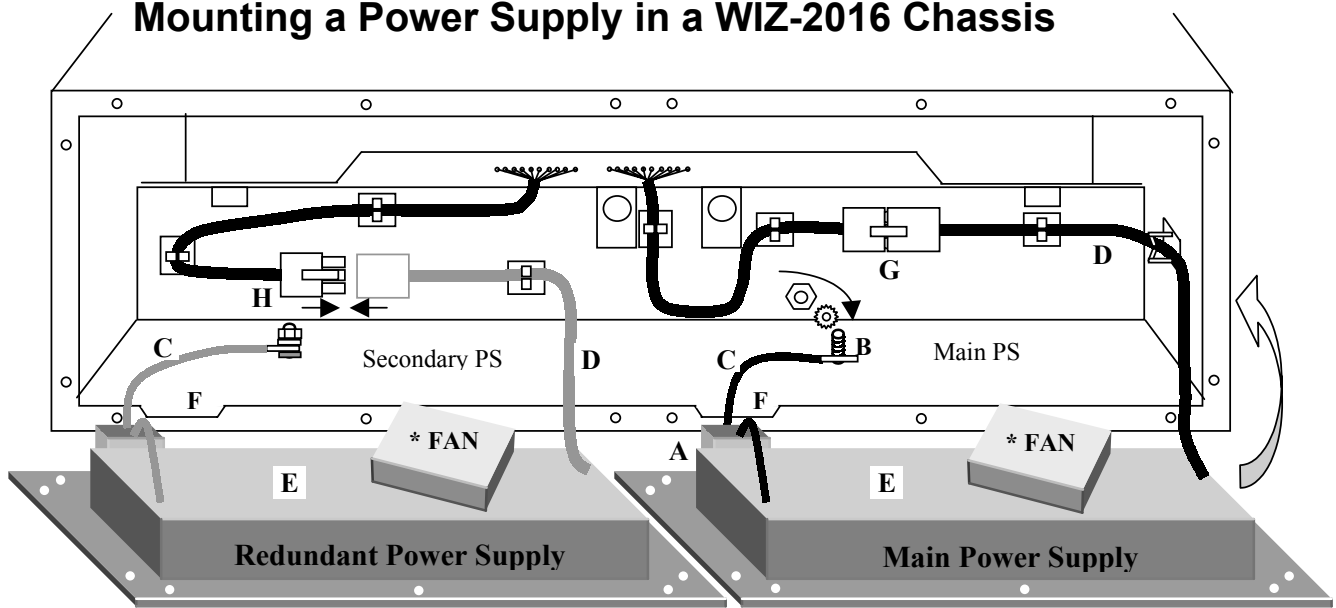
1. Use high power version of chassis (for WIZ-2016 chassis only).
2. Use dual/redundant power supply.

**Important:** It is required to fill all the empty slots of the chassis with blank panels (product number WIZ-100/400) to ensure cooling and proper airflow through the modules and chassis.

### 3. Installing a Power Supply in the WIZ-2016 chassis

1. Disconnect the power cord from the WIZ-2016.
2. Remove the blank panel from the back of the WIZ-2016.
3. Hold the power supply adjacent and flat to the WIZ-2016. Connect the ground wire of the power supply to the ground attachment bolt on the inside bottom of the chassis. Secure it tightly with the nut and washers provided.
4. Connect the power supply's female connector to the corresponding male connector.
5. Align the line filter on the power supply unit with the cutout space (F) in the chassis. Stand the power supply unit upright so that it's parallel to the back of the chassis. Insert the power supply into the chassis.
6. Secure the power-supply panel to the chassis with the screws provided. Note that there are two empty screw holes in the power supply panel. This enables the installation of a power supply unit in either the left or right space.
7. Reconnect the power cords to both the original power supply and the power cord to the second power supply.

#### Mounting a Power Supply in a WIZ-2016 Chassis



KEY	
A	Line filter
B	Ground bolt
C	Ground wire
D	DC Harness
E	Power supply unit
F	Line filter cutout
G	Power-supply connector 1 (LED 'MAIN')
H	Power-supply connector 2 (LED 'SEC')

\* FAN – Only available in the High Power (HP) power supply

Viewed from the rear. The power supply on the right side of the WIZ-2016 corresponds to the Power Supply LED 'MAIN' on the front panel. The power supply on the left side corresponds to LED 'SEC' (Secondary).

## 4. Technical Specifications

	WIZ-2016 /HP			WIZ-2004 /R			WIZ-2001		
<b>Mechanical</b>									
Slots	16 Modules + 1 management			4 modules or 3 modules + 1 Mngmnt.			1 module		
Dimensions	W	H	D	W	H	D	W	H	D
Inches	19	5.25 (3U)	10	19	2.7 (1.5U)	6	5.5	1.75 (1U)	7.8
Centimeters	48.3	13.3	25.4	48.3	6.7	15.1	13.9	4.4	19.9
<b>Electrical</b>									
DC Power Output*	22PU, 44PU w/RPS† /HP: 32 PU, 64 PU w/RPS†			8 PU - WIZ-2004 ‡ 16 PU - WIZ2004R			2 PU		
AC Input Voltage	90-130, 180-260 VAC Auto-select			90 – 264 VAC			90 – 264 VAC		
Frequency	47 – 440 Hz			47 – 440 Hz			47 – 440 Hz		
DC Input Voltage	/DC: 36 – 72 VDC			/DC: 36 – 72 VDC			/DC: 36 – 72 VDC		
AC/DC input Power (Max) Consumption	170/200 watts /HP: 250/290 watts			60/75 watts /R 120/150 watts			15 watts		
<b>Safety &amp; Emissions</b>	CE, FCC, Part 15, EM60950			CE, FCC, Part 15, EM60950			CE, FCC, Part 15, EM60950		
<b>Environment</b>	°C	°F		°C	°F		°C	°F	
Operating Temp.	0 to 45	32 to 113		0 to 45	32 to 113		0 to 45	32 to 113	
Storage Temp.	-30 to 65	-22 to 149		-30 to 65	-22 to 149		-30 to 65	-22 to 149	
Humidity	10 to 90% non-condensing			10 to 90% non-condensing			10 to 90% non-condensing		
<b>LEDs**</b>	PS 1= Main PS PS 2= SEC PS			PS 1=Power Supply 1 PS 2=Power Supply 2			Power On		

\* The RPS (redundant power supply) operates in load sharing mode with the main power supply.

\*\* LEDs 'MAIN and 'SEC' indicate proper operation of the power supplies, respectively.

† A second power supply for the WIZ-2016 (product number WIZ-2016PS) can be added to the unit for redundancy.

‡ The WIZ-2004 is available in two versions: the WIZ-2004, with a single power supply, and the WIZ-2004R, with a built in redundant power supply. Both units are equipped with one main power input.

**Caution:** To ensure proper airflow cooling through the 19" chassis, it is highly recommended to close all empty slots with blank panel (WIZ-100).

### Ordering Information

WIZ-2016	16 slot modular chassis + NMS slot, 3U 19" rack mount, inc. main universal PS (22PU) and optional RPS.
WIZ-2016R	16 slot modular chassis + NMS slot, 3U 19" rack mount, inc. dual universal PS (main + redundant (22+22PU)).
WIZ-2016PS	Redundant universal power supply (RPS) for WIZ-2016 (22PU) .
WIZ-2016/DC	16 slot modular chassis + NMS slot, 3U 19" rack mount, inc. -48VDC PS (22PU) and optional RPS.
WIZ-2016R/DC	16 slot modular chassis + NMS slot, 3U 19" rack mount, inc. Dual / redundant -48VDC PS (22+22PU).
WIZ-2016PS/DC	Redundant -48VDC power supply (RPS) for WIZ-2016 (22PU) .
WIZ-2016/HP	16 slot modular chassis + NMS slot, 3U 19" rack mount, inc. main universal PS/HP (High Power 32PU) and optional RPS.
WIZ-2016R/HP	16 slot modular chassis + NMS slot, 3U 19" rack mount, inc. dual universal PS/HP (main + redundant (High Power 32+32PU)).
WIZ-2016PS/HP	Redundant universal power supply (RPS/HP) for WIZ-2016 High Power (32PU) .
WIZ-2004	4 slot modular chassis inc. NMS slot, 1.5U 19" rack mount, single universal PS (8PU).
WIZ-2004R	4 slot modular chassis inc. NMS slot, 1.5U 19" rack mount, Dual / Redundant universal PS (8+8 PU).
WIZ-2004/DC	4 slot modular chassis inc. NMS slot, 1.5U 19" rack mount, -48VDC PS (8PU).
WIZ-2004R/DC	4 slot modular chassis inc. NMS slot, 1.5U 19" rack mount, Dual / redundant -48VDC PS (8+8PU).
WIZ-100	Blank panel for WIZ-2016 and WIZ-2004 Chassis.
WIZ-400	Blank panel, 4 slots wide, for WIZ-2016 Chassis.
WIZ-NMS	WizLAM SNMP Agent module (1.5PU), optional for WIZ-2016 and WIZ-2004 chassis.
WIZ-2001	1 slot modular chassis, Stand-alone 1U, int. universal PS (2PU).
WIZ-2001/DC	1 slot modular chassis, Stand-alone 1U, int. -48VDC PS (2PU).

All specifications are subject to change without notice. Neither manufacturer nor seller shall be liable for any loss, damage, or injury, direct or consequential, arising from the inability to use the product.