



AMN32225 (Grizzly)

User/Installer Manual

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Version 1.1

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Revision History

Version	Date	Description
1.0	Sep 15, 2014	Initial Release
1.1	Oct. 21, 2014	Add notification about Power Supply on pages 9, 11. Replace the Module picture

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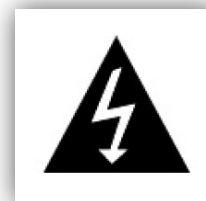
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Safety Instructions

- When operating this equipment, read and follow all the instructions in this manual.
- Do not open unit.
- Do not block the air ventilation openings.
- Use only accessories specified or recommended by Amimon.
- When devices are switched on keep away at least 20 cm from your body.
- Do not expose to moisture or excessive heat.
- Keep away from water
- Use the mains plug to disconnect the apparatus.
- Clean with a dry cloth only.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.
- Keep these instructions in a safe and accessible place for future use.

Explanation of graphical symbols:

High Voltage Sign: warns the user of the presence of uninsulated "dangerous voltage" within the product enclosure, which may be of sufficient magnitude to constitute a risk.



General Warning Sign: warns the user of the presence of important operating and maintenance (servicing) instructions in the product manual.



Introduction

The **GRIZZLY** is wireless A/V receiver board, which works at the 5GHz unlicensed band.

It is are based on AMIMON's WHDI Professional chipset that consist of the AMN2220 baseband receiver and the MAXIM 2851 ICs, presents the ultimate solution for HDMI receiver of the WHDI system. The perfect HDMI video, audio quality, the high robustness and the invisible latency of the wireless system are unmatched by any other wireless technology and presents a true alternative to cable. The WHDI system transmits **uncompressed** video and audio streams wirelessly and thus simplifies and eliminates system issues, such as: lip-sync, large buffers and other burdens like retransmissions or error propagation.

System Technical Specifications:

Transmitter AMN35253	
Video Interface:	HDMI
Audio:	Over I2S interface
Frequency Control:	Non-DFS channel center Frequencies : EU: 5190, 5230 MHz US: 5190; 5230; 5755; 5795 MHz DFS Frequencies: EU: 5270; 5310; 5510; 5550; 5590; 5630; 5670 MHz US: 5270; 5310; 5510; 5550; 5670 MHz SRD Frequencies (EU only): 5755; 5795; 5835 MHz
Bandwidth	40MHz
Antenna:	4 receiving + 1 transmitting/receiving 3 on-board chip antennas and 2X External using on-board U.FL Connectors
Environment:	Operational - 0:40° C, 10%~90% humidity Storage - 0:55° C, 10%~90% humidity
Voltage:	5V ±10% via the mini-USB connector
Size:	L: 85mm x W: 60mm x H: 15mm
User Control:	3 LEDs indicating Power, Video lock and Network lock Connector for software update; button for registration; Reset button
FCC ID	VQSAMNZGMD1

Table 1: Technical Specifications

1 PRODUCT DESCRIPTION

Front view



Figure 1 –Rx Grizzly top-side

Back view

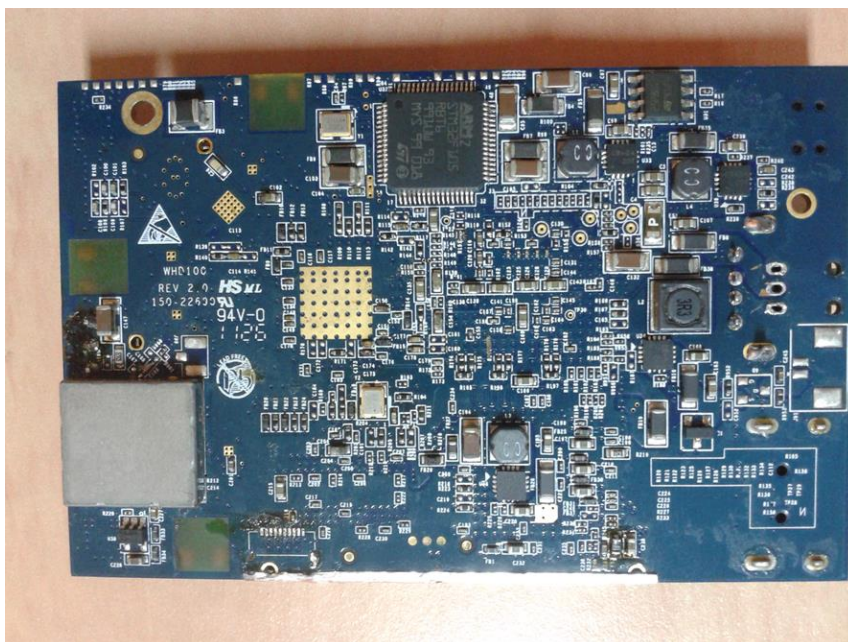


Figure 2 – Rx Grizzly bottom side

LED behaviors

Network LED

BLINKING MODE	DESCRIPTION
Solid	When a connection to Tx is established*/Link quality is good
Slow	Device is in listen mode/Link quality is reasonably good
Normal	During link setup mode/during registration
Fast	System Error (Video LED flashing as well)/Link quality is poor

*In Aerial mode even when Tx is out of range.

Video LED

BLINKING MODE	DESCRIPTION
Solid	Video signal is locked
Fast	System Error (Video LED flashing as well)

Power LED

BLINKING MODE	DESCRIPTION
Solid	Power is supplied

2 PRODUCT INSTALLATION

The AMN352225 is referred as the main platform that comprises a wireless Video Display Unit (VDU). It provides HDMI video signal Interface connector output. The source of the video and audio is a compatible remote wireless Video Source Device (VSU). At common application, the VSU is connected to a video source, and transmits the video over wireless to the VDU, which is connected to the video monitor.

The AMN35225 is designed to be integrated into a host device, to provide a complete wireless Video Display Unit.

At common application, the AMN352225 shall provide standard video interface that can be connected to standard video monitor or any other device with standard HDMI input

It is advised to verify compatibility of the AMN35225 to the host device, before initiating the installation.

Installation of AMN352225 must provide the adequate heat dissipation means, to provide the module ambient temperature within the product operating conditions as specified.

Please Note:

A regulated power supply will need to be used with this module and may be subject to further FCC testing.

3 SYSTEM SETUP

See 'Product Description' for port location described in this section.

1. Connect the Amimon-AMN352225 receiver to compatible Video Interface device.
2. Connect the AMN352225 to a video monitor through the HDMI video interface Connector.
3. Power ON the AMN352225.

Note: For maximal range

- Keep line of sight between the transmitter and the receiver.
- Avoid placing any obstacles besides the transmitter or the receiver.
- Position both transmitter and receiver in an upwards position, for enhanced antennas performance.
- Mount the Amimon - AMN352225 module with proper air ventilation.
- Bring the transmitter and receiver closer together while trying to maintain at least 1 meter between them.

FCC Caution

Any changes or modifications not expressly approved by the responsible party could void the user's authority to operate this equipment.

Notice:

This module in its final integration requires the end-product to continue to comply with DFS requirements. A class II permissive change may be required for operation not already described in the FCC Grant filing.

A regulated power supply will need to be used with this module and may be subject to further FCC testing.

OEM Labeling Requirements

Notice: The OEM of final integrator must ensure that FCC labeling requirements are met.

For a host using this module, if (1) the module's FCC ID is not visible when installed in the host, or (2) if the host is marketed so that end users do not have straightforward commonly used methods for access to remove the module so that the FCC ID of the module is visible; then an additional permanent label referring to the enclosed module should be used, with the following contents: Contains FCC ID:

The host OEM user manual must also contain clear instructions on how end users can find and/or access the module and the FCC ID. The applicable usage is to be used as a wireless device, connected to the back of a professional camera and transmitting live video, coming from BNC connectors

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

THE ANTENNA USED FOR TRANSMISSION MUST BE INSTALLED TO PROVIDE A SEPARATION DISTANCE OF AT LEAST 20CM FROM ALL PERSONS AND MUST NOT BE CO-LOCATED OR OPERATING IN CONJUNCTION WITH ANY OTHER ANTENNA OR TRANSMITTER.