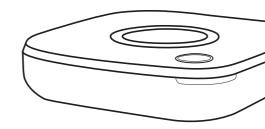


Linux-based Set-top box MAG524 MAG524w3

Instruction manual





MAG524, MAG524w3 Linux-based Set-top box. Instruction manual

Regulatory information

UK

This equipment has been tested and found to comply with the essential requirements of the following Regulations: The Radio Equipment Regulations 2017, The Electrical Equipment (Safety) Regulations 2016. Electromagnetic Compatibility Regulations 2016. This product is in accordance with The Waste Electrical and Electronic Equipment Regulations 2013. Hereby, Telecommunication Technology LLC declares that MAG524w3 with the radio equipment type 802.11a/b/g/n/ac is in compliance with the Radio Equipment Regulations 2017. The full text of the declaration of conformity is available at the following internet address:

www.infomir.eu/eng/support/declarations

This device is certified for indoor deployment only in the 5150-5350 MHz band. Do not install or use this device outdoors in that frequency in the UK.

EU

This equipment has been tested and found to comply with the essential requirements of the following Directives: 2014/30/EU, 2014/35/EU, 2014/53/EU, 2009/125/EC, 2011/65/EU. This product is in accordance with Directive WEEE 2012/19/EU. Hereby, Telecommunication Technology LLC declares that MAG524w3 with the radio equipment type 802.11a/b/g/n/ac is in compliance with the 2014/53/EU Directive. The full text of the EU declaration of conformity is available at the following internet address: www.infomir.eu/eng/support/declarations This device is certified for indoor deployment only in the 5150 – 5350 MHz band. Do not install or use this device outdoors in that frequency in the European Union.

FCC

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 when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

This device 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.

CAUTION:

Unauthorized antennas, modifications, or attachments could damage the device and violate FCC regulations. Changes or modifications not expressly approved by responsible party could void the user's authority to operate the equipment.

FCC Radiation Exposure Compliance (only for MAG524w3):

This equipment complies with radio frequency (RF) exposure limits set forth by the Federal Communications Commission for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This device is certified for indoor deployment only in the 5150 – 5250 MHz band. Do not install or use this device outdoors in that frequency in the United States.

Warranty

Warranty term Europe, MEASA and Oceania:

2 years from date of sale (but not more than 2,5 years from manufacture date).

The USA, Americas, Russia, Ukraine and other regions: 1 year from date of sale (but not more than 1,5 years from manufacture date).

See the date of manufacture at «Product Information» section. By virtue of the present Coupon, the absence of defects in manufacturing of the product and its compounds is warranted for a year-term counted since date of sale. If during the mentioned warranty term the defects of materials or operation of product will be found, the product would be repaired or its defective parts would be replaced free of charge in the warranty processing center with compliance with warranty conditions.



Warranty processing centers

Europe:

ZLS Services GmbH Hamburger Allee 56

60486, Frankfurt am Main, Germany

Tel.: +49 6196 204 83 18

e-mail: warranty@infomir.com

The USA, Canada and Latin America:

Infomir USA

174 Bay 49th Street

Brooklyn, NY 11214 USA Tel: +1 631 482 66 36

e-mail: sales@infomirusa.com

Russia, Belarus:

Tel.: +38 048 759 09 00

e-mail: warrantv@infomir.com

MEASA and Oceania:

PROGRESSIVE TECHNOLOGY F.Z.F.

Warehouse B1-40

Sheikh Rashid Bin Saeed Al Maktoum Street Aiman Free Zone, 45573, Ajman, UAE

Tel: +971 6 740 37 55

e-mail: warranty@infomir.com

Ukraine:

Telecommunication Technologies LLC 4/D, Nebesnoi Sotni Avenue

Odesa, 65121, Ukraine Tel: +38 048 759 09 00

e-mail: warranty@infomir.com

Warranty

NOTE: IF YOU APPLY TO THE WARRANTY PROCESSING CENTER, HOLD ON TO THE WARRANTY SERVICE COUPON AND THE PRODUCT INFORMATION PROVIDED IN THIS INSTRUCTION MANUAL.

Warranty Servic	•
to be filled in by a	shop-assistant)
Date of Sale:	
Se ll er:	
Address of Seller:	
	60.
PI	ace of Stamp
	appearance and package
contents. I accept the	warranty conditions.
Signature of Custome	r:
Manufacturer:	
Te l ecommunication Te	ochnologies LLC
1 Mytna Square, Odes	

Warranty conditions

- 1. The present warranty is only valid if the defective product is provided with properly filled in Warranty Service Coupon. If date of sale is not pointed, the warranty term is counted since date of the product manufacturing which is defined under serial number. Warranty processing center reserves the right to refuse free warranty service and parts replacement in case the mentioned above documents are not presented or the filled in it information is not complete or unreadable.
- The present warranty does not enable the right for compensation and cover of loss received as a result of rearrangement of the product.
 The present warranty is invalid if model or serial number of
- the product is altered, erased, removed or unreadable, or warranty seal is broken.
- **4.** The present warranty does not cover the following:
- 4.1. Any adaptations and alterations with the aim of perfection and widening of the common scope of the product application specified in the Manual.
- **4.2.** Devices and accessories not specified in the "Product Information" section.
- 4.3. The batteries for the remote control included with the set-top box.
- 4.4. Damage caused in result of: a) Improper maintenance including but not limited by following: (1) use of the product not according to its intended purpose or Manual; (2) mounting and maintenance of the product in conditions not corresponding to safety standards and requisitions valid in

the country of use:

- (3) incorrect software installation provided by service operator. b) Repair performed by not authorized service centers or dealers; c) Accidents, lightning stroke, flood, fire, incorrect ventilatior; d) Transporting excluding cases when it is carried out by warranty processing centers; e) Faults of system in which the present product had been using.
- 5. These warranty conditions do not intend to restrict or limit in any way statutory rights of customers which may not be altered in some jurisdictions and other customers' rights which may arise out of any agreements with third parties, provided that nothing contained in such agreements states or implies that the manufacturer or manufacturer affiliates assume any obligations or liabilities other than those expressly stipulated in this Warranty Service Coupon.

While maintaining warranty liabilities on product repair or replacement, Manufacturer takes no responsibilities for personal data safety, including logins, passwords, paid or free subscriptions, settings, portals, media files, content and software installed or set up by Customer or other third parties.

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Software Notes

READ CARFFULLY: WHEN USING THE SOFTWARE WITH YOUR DEVICE, YOU HEREBY AGREE WITH EVERY CLAUSES OF THE PRIVACY POLICY. IF YOU DO NOT AGREE WITH THE TERMS AND CONDITIONS OF THE PRIVACY POLICY, YOU SHOULD IMMEDIATELY STOP USING THE DEVICE.

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According to this Privacy Policy, Telecommunication Technologies LLC provide you with a non-exclusive and non-transferable license, with no right to sublicense, for use of all software and documents with the product only. You recognize and acknowledge that Telecommunication Technologies LLC may regularly renew, change or extend the product software features. You therefore confirm that:

- a) You shall not make attempts to change, extend, decompile, disassemble, redesign, or otherwise attempt to access the software source code, and you not allow third-parties to do likewise.
- b) You shall not make attempts to delete or upload the product software.

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The Manufacturer and the Manufacturer's own licensors keep all the rights constituting ownership, including patent, copyright trademark, and other intellectual property for the Software; and any improvement and modification of the Software. You recognize and acknowledge that the license according hereof does not grant you ownership for the Software but only restricted right of use It according to provisions of the Privacy Policy.

Warranty for the Software

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Terms of using

Safe and Efficient Using

Device does not contain harmful or hazardous substances.

Accessories

Use the accessories supplied with your arrangement or recommended by the manufacturer only. Using of the accessories which are not supplied or not sanctioned by the manufacturer may be dangerous for the User or do harm to the arrangement operation. Using of the not appropriate accessories eliminates guarantees of the product therewith.

Water and Moisture

To avoid damage that can cause ignition of the present product or lesion to the User with electrical current, the product and its accessories should not be undergone with any liquids, rain or high moisture. Do not use the present product in the places where it may be exposed to the contact with a liquid or vapor.

The Product Unpacking and Installation

After the product extraction out of the package it is necessary to handle it with care, do not drop, shake it and afford other influence. The product is designed for horizontal allocation onto a flat surface if not otherwise specified by the manufacturer. The product is intended for use indoors.

- Do not place the product onto slippery surface, in place where it may be exposed to vibration or hazard to drop and other possible risks to the product to be damaged which may cause invalidation the product warranty.
- Do not leave the product on soft surfaces such as rugs, beds, etc. The absence of an air gap between the body of the set-top box and the surface can lead to overheating and void the warranty.
- Do not locate the product into the furniture in case of vacant clearance around the product is not provided for the sufficient product ventilation.
- Do not place the product where it may be exposed to direct. sunlight, or next to open fires and convectors.
- Do not place the product on surfaces that may, when in operation, cause the product to get warm, for instance, on a video record player or amplifier, and do not put anything on the top of the shell as well.
- Do not cover the product.
- · Objects containing liquids, such as vases, plant pots are not to be placed next to or on the product.
- Do not touch or move the product during its operation.
- · Switch off the product if you need to shift it.

The power supply cord is to be put to prevent its deformation and jamming and touching it as well. The power supply cord

is not to be laid under the carpets or blocked with anything where any damage may not be noticed.

Power supply unit

The product should be used with power supply unit provided by the manufacturer only. The power supply unit is fitted out with plug which is intended for connecting to socket in your country usage. In case of the necessity in the product connecting in other country or in the region with other data of electric circuit the power supply unit adopted for use in the specified area should be received from the manufacturer. For AC/DC Adapter, the socket outlet must be near the equipment and shall be easily accessible.

Operation

The outer power supply unit of the product is getting warm in operation. In case of outer power supply unit gets hot, switch off promptly and get in touch with the equipment supplier for its replacement.

Protection from atmospheric electricity or not using for a long time

On coming the thunderstorm and also in case of the product is intended to be in no use for a long time, disconnect the power supply cord out of socket, switch off Ethernet, video and audio cables. It is to protect the product from thunder discharges and power surges in the circuit.

The Arrangement Designation

The product is intended to select digital audio & video channels from transport streams, decode and display them on TV. Any other use is prohibited. It means Telecommunication Technologies LLC insists on the product usage in entirely accordant to the law of copyright. The compliance with the specified laws leaves on conscience of the user. The unauthorized copying of the protected materials or spreading of the specified copies under definite conditions may violate the law of copyright and is to be previously adopted by possessor of the rights for the further commercial use.

Updating the Software

The product entails the capability of automatic software updating. The manufacturer reserves the right for automatic software updating to improve the product functional capability. When the software is updating, the product should not be used and/or switched off until the update is complete. Updating can take up several minutes and once complete you shall be able to continue to enjoy all the delights of digital television services.

Product Care

Maintenance of Product

The product should not be disassembled. The tries of the disassembling of the product may be dangerous for your life and for serviceability of the product. The self-supporting disassembling invalidates you the product guarantee. The maintenance should be affected by qualified specialists in the warranty processing centers only. The product possesses protective sealing. Breaking or changing of the mentioned sealing invalidates guarantee of the product.

Cleaning

The product and accessories should be rubbed with dry cloth or tissue only. To ensure safety, before shell cleaning switch the power supply off the alternative current socket. The shell may be cleaned from persistent spots with a slightly wet cloth or cleaning tissue. Do not use cleaner or polish, benzyl, solvents, abrasive items, liquid or aerosol detergent means for the product and accessories cleaning.

Specifications

Physical Parameters Model: MAG524, MAG524w3

Weight: 170 g (5.99 oz)

Dimensions (approximately): 115 mm (4.53") depth, 115 mm (4,53") width, 28 mm (1.10") height

On a section to section and Humidity

Operation temperature and Humidity

1 °C – 40 °C (33,8 °F – 104 °F); 5% ~ 93% RH

Ethernet Interface Ethernet Connector: RJ-45

Cable: UTP and STP 5 categories Speed: Auto-choice, 10/100 Mbit/s

Indicators: Green - Activity, Yellow - Connection

Wi-Fi Interface

Built-in Wi-Fi module: 2T2R ac (only MAG524w3) Operating frequency bands:

802.11 b/g/n 2400 MHz ~ 2497 MHz,

802.11 a/n/ac 4900 MHz ~ 5845 MHz

Output power (E.I.R.P.):

IEEE 802.11 a/b/g/n/ac <20 dBm (100 mW) Internal Antenna gain (max): 3,11 dBi (5 GHz), 2,69 dBi (2,4 GHz)

HDMI Interface

Type: HDMI 2.1

USB Interface

Type: USB 2.0 \times 1 pcs., USB 3.0 \times 1 pcs.

Supported Audio and Video Formats

Video codecs: MPEG1/2 MP@HL, MPEG4 part 2 (ASP), H.265

Main/Main 10@L5.1 High 2160p@60 fps (optional),

H.264 AVC High@L5.1 2160p@30 fps, XviD, 3D video support Video containers: TS, AVI, MPEG, MP4, MOV, MKV, MZTS, VOB Audio codecs: MPEG L1/L2/L3, AAC-LC, HE AAC V1/V2, APE, FLAC This product supports Dolby Digital Plus**

Video modes: PAL, NTSC, 576p, 720p, 1080p, 1080i, 4K Subtitles: DVB, PGS, SRT, SSA/ASS, SUB, teletext subs, WebVtt, closed captions

Power supply Interface

Connector: DC cylindrical 2.1 mm × 5.5 mm Type: plug-and-socket, DC current, center plus Input: 12 V

Power consumption: less than 10 W in typical conditions

External Power Supply Unit

Type: pulse with universal inlet Input: 110–240 V AC, 50–60 Hz, 0.5 A max Output: 12 V DC. 1 A

Package

Type: cardboard box.

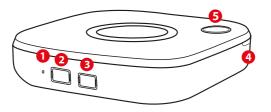
Dimensions (approx.): 214 mm (8.43 ") width, 119 mm (4.69") depth, 57 mm (2.24") height

Shipping weight: 524 g (18.48 oz)

NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. INFOMIR RESERVES THE RIGHT TO REVISE THIS PUBLICATION AND TO MAKE CHANGES IN ITS CONTENT FROM TIME TO TIME BY POSTING NEW SPECIFICATIONS AND OTHER CONTENT AT WWW.INFOMIR.EU

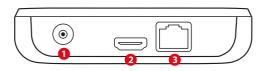
About your MAG524, MAG524w3

Front Panel



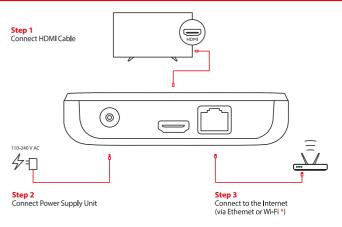
- 1. Fn reset to factory settings/ select the boot mode
- 2. USB 2.0
- 3. USB 3.0
- 4. LED
- 5. Power On/Standby

Back Panel



- 1. Power Supply 12 V
- 2. HDMI 2.1
- 3. Ethernet LAN port

Connecting to MAG524, MAG524w3



WARNING! SWITCH OFF ALL THE DEVICES (TV, AMPLIFIER, ETC.) AND TAKE THE POWER SUPPLY UNIT OUT OF THE SOCKET BEFORE CONNECTING OR DISCONNECTING ANY CABLE.

^{*}ONLY FOR MAG524W3

Using the Remote Control

MiniFusion Remote Control

This section explains how to unpack Remote Control (RC) and prepare it for work. Your service provider can supply the product with an alternative RC. In that case please refer to the manual supplied by your service provider. Remote Control requires two batteries type AAA, RO3, LRO3, UM-4, 286.

The MAG524, MAG524w3 package includes a remote control with a block of five programmable buttons (marked with blue print colour). You may want to choose these buttons for controlling other devices (your TV set or amplifier).

To program the buttons, do the following:

- Place infrared LEDs of both Remote Controls (STB RC and TV RC) opposite each other at a maximum distance of 5 cm (2").
- 2. On the STB RC, press the "Red" and "Blue" buttons of 'Additional functions' at the same time and hold them together for 3 seconds. Access to the setup is confirmed when the visual LEDs under "TV power" button (Green) and "STB power" button (Red) turn ON and remain ON.
- 3. On the STB RC, press the button that will store the copied data, the LED under "STB power" button will blink once and remains ON, to indicate selection of allowed button. Programmable buttons are marked with blue print colour.
- 4. On the TV RC, press the button, whose function you wish to copy to the STB remote. Hold the button until the LED under the "TV Power" (3) button (Green) on STB RC blinks twice to indicate successful operation. Both visual LEDs remain ON.
- 5. The STB RC will continue in the copying setup mode and

- will wait for the user's input to other STB remote buttons according to steps 3 and 4.
- 6. To finish the copying process, press the "OK" ⊕ button on the STB RC. Both LEDs will double blink and turn OFF.

Reset

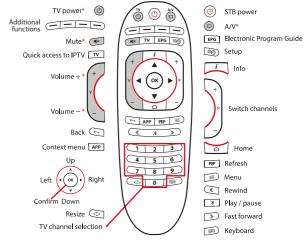
Make sure RC is in idle mode (no IR-transmission or visual activity), Press "SETUP" (and "OK" (buttons at the same time and hold up (about 2 seconds) until the visual LEDs under "TV Power" (button (Green) and "STB Power" (button (Red) turn ON. Then, release both pressed buttons – the LEDs will turn OFF in 1 second. Reset is done.

Important information about using batteries

Do not mix different types of battery or old and new batteries. Do not use rechargeable batteries with the remote control. Remove the batteries from the remote control if you are not going to use it for several weeks, to avoid the risk of leakage. Please respect your environment and any local regulations and dispose of old batteries in a responsible manner.

CAUTION! DO NOT ATTEMPT TO RECHARGE THE BATTERIES.
IMMEDIATELY REMOVE ANY LEAKING BATTERIES. TAKE CARE WHEN
HANDLING LEAKING BATTERIES AS THEY MAY CAUSE BURNS TO THE
SKIN OR EYES, OR OTHER PHYSICAL INJURIES.

MiniFusion Remote Control



^{*}BUTTONS ALLOWED TO STORE COPIED DATA

Product Information

Product:

Serial number:

MAC address:



The set includes the following:

Set-top box	- 1 pc:
External power supply 12 V	- 1 pc:
IR remote control	- 1 pc:
AAA batteries	- 2 pc:
Instruction manual	- 1 pc:
Package box	- 1 pcs

Optionally the set may include the following:

HDMI cable (length less than 3 m) - 1 pcs. LAN network cable - 1 pcs.