

FMA-LG101 Warranty



Broadcast Products Welcome to the LG family! We believe that you will be pleased with your new FMA-LG101. Please read this warranty carefully, it is a "LIMITED WARRANTY" as defined under Federal Law. This warranty gives you specific legal rights, and you may also have other rights that vary from state-to-state within the U.S.A.

LG's RESPONSIBILITY

Warranty Term	One year parts and labor from date of purchase or delivery date.
Parts	New or remanufactured replacements for factory-defective parts may be used. Such replacement parts are warranted for the remaining portion of the original warranty period.
Warranty Service	Warranty service is provided at LG. Customer pays for shipping charges to LG; LG pays for return shipping charges to return the FMA-LG101 to customer. Call 1-888-865-3026 for further information.
Not Covered	This warranty covers manufacturing defects and does not cover installation, adjustment of customer controls, installation or repair of antenna systems, cable converters or cable company-supplied equipment; it also does not cover damage due to misuse, abuse, negligence, acts of God or other causes beyond the control of LG. Any alteration of the product after manufacture voids this warranty in its entirety.

This warranty does not cover any missing or stolen access cards.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND LG SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS IN CONNECTION WITH THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

OWNER'S RESPONSIBILITY

Effective Warranty Date	Warranty begins on the date of delivery of the FMA-LG101 For your convenience, keep the dealer's dated bill of sale or delivery ticket as evidence of the purchase date.
Installation Guide	Read the Installation & Configuration Guide carefully so that you will understand the operation of the FMA-LG101 and how to configure it.
Antenna	Reception problems caused by inadequate antenna or faulty antenna connections are the owner's responsibility.
Warranty Service	For warranty service information, call 1-888-865-3026. Parts and service labor that are LG's responsibility (see above) will be provided without charge. Other service is at the owner's expense. If you have any problem in obtaining satisfactory warranty service, call 1-888-865-3026 . You must provide the model number, serial number and date of purchase or date of original installation.

For Customer Support/Service, please call:

1-888-865-3026

www.LGcommercial.com

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FMA-LG101

Installation & Configuration Quick Reference | Warranty

The latest product information and documentation is available online at:
www.LGcommercial.com/products





WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION:

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 into 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.

CAUTION:

Do not attempt to modify this product in any way without written authorization from LG Electronics U.S.A., Inc. Unauthorized modification could void the user's authority to operate this product.

COMPLIANCE:

The responsible party for this product's compliance is: LG Electronics U.S.A., Inc.
2000 Millbrook Drive, Lincolnshire, IL 60069, USA • Phone: 1-847-941-8000

Note: Design and specifications subject to change without prior notice.

Marketed and Distributed in the United States by LG Electronics U.S.A., Inc.
2000 Millbrook Drive, Lincolnshire, IL 60069

Once you have completed the required steps to set the PC's network connections, you can update the FMA-LG101 using either the FTG Configuration Application software (v5.0.0 or higher) or the FMA-LG101 software web page.

Refer to the **FMA-LG101 Installation & Configuration Guide** for detailed instructions.



Note: The RF distribution system must support 50.5 MHz RF transmission (downstream) from the head end to the FTG device(s).

FMA-LG101 Configuration Prerequisites

- The FMA-LG101 must be installed in the equipment rack prior to configuration (see FMA-LG101 installation and cabling information on previous pages).
- You will need to know the IP address of the FMA-LG101 (see "FMA-LG101 Ethernet Connection/Network Options" on previous page).
Network Ethernet connection: Consult the network administrator to obtain the IP address that has been assigned by the DHCP server to the FMA-LG101.
Direct Ethernet connection: The FMA-LG101 uses its default IP address (10.20.1.120).
- Create a new or identify an existing FMA Configuration (.fma) file to use for updating the FMA-LG101 (see the **FMA-LG101 Installation & Configuration Guide**, as necessary).

FMA-LG101 Configuration Overview (FTG Configuration Application)

1. Launch the FTG Configuration Application (v5.0.0 or higher), and access the FMA Configuration Utility.
2. Set the FMA Utility's IP address.
3. "Write" the appropriate FMA Configuration file to the FMA-LG101.
4. Set the FMA clock. (Note that date and time must be set on the PC running the FTG Configuration Application prior to an attempt to set the FMA clock.)
5. Set the FMA broadcast rate.
6. Connect the FMA-LG101 to the RF distribution system.
7. Verify that the 50.5 MHz RF signal level is between +3 dBmV and +10 dBmV at the FTG device(s).

FMA-LG101 Configuration Overview (FMA-LG101 Software Web Page)

1. Launch a web browser, type the appropriate IP address in the browser's address bar, and press **Enter**.
2. Set the date and time parameters and the broadcast rate, and then update the FMA-LG101.
3. Update the FMA-LG101 with an FMA Configuration file.
4. Connect the FMA-LG101 to the RF distribution system.
5. Verify that the 50.5 MHz RF signal level is between +3 dBmV and +10 dBmV at the FTG device(s).

FMA-LG101 Ethernet Connection/Network Options

(see also Ethernet connection information on previous page, as necessary)

- The FMA-LG101 can operate as a DHCP client if a network DHCP server assigns it a valid IP address for that network. Otherwise, the FMA-LG101 uses its factory default IP address. In order to operate as a DHCP client, the FMA-LG101 must be connected via a straight-through Ethernet cable to a network with a DHCP server before power is applied.
- If there is no DHCP server, or if the FMA-LG101 is connected directly to a PC via an Ethernet crossover cable, the FMA-LG101 will default to its factory IP address and subnet mask of 10.20.1.120 / 255.255.248.0. When the FMA-LG101 is using its default IP address, the configuring PC must be on the same subnet as the FMA-LG101. For example, the PC's network connection settings can be set as 10.20.1.90 / 255.255.248.0.

Setting the PC Network Connections

If the FMA-LG101 is connected to the network (i.e., the FMA-LG101 is a DHCP client), consult the network administrator for proper network settings. Set the PC's network connections to provide access to the network, and then proceed to configure the FMA-LG101.

If you are using a direct Ethernet connection between the FMA-LG101 and the configuring PC, you must complete the following procedure to set the PC network connections before you proceed to configure the FMA-LG101.

1. On the PC, navigate to Network Connections options, as applicable, per your operating system, i.e., Windows® XP, Windows Vista® or Windows 7. Refer to IT personnel or Windows documentation for further information.
2. Right-click on the **Local Area Connection** icon in the Network Connections window, and select **Properties**.
3. Double-click on **Internet Protocol (TCP/IP)** in the Local Area Connection Properties window.
4. In the Internet Protocol Properties window, select the **Use the following IP address:** radio button. Then:
 - In the **IP address** field, type an IP address from the following range: 10.20.1.81 to 10.20.1.92.
 - Type **255.255.248.0** in the **Subnet mask** field.
5. Click **OK** to close the Internet Protocol Properties window. (You can also close any additional network connections windows at this time.)

FMA-LG101 Overview

The Free-To-Guest (FTG) Management Appliance (FMA-LG101) facilitates the delivery of Channel Lineup and Installer Menu settings to guest room TVs via the RF distribution system, such that Channel Lineup or Installer Menu settings can be updated without individual room visits. Every LG TV capable of receiving the Channel Map broadcast from the FMA-LG101 will be configured with the same Channel Lineup. Installer Menu settings are dependent on chassis model IDs; only the model(s) whose Installer Menu settings are being broadcast will be affected. The FMA-LG101 can broadcast multiple Installer Menu profiles to support the different chassis models connected to the RF distribution system.

Setup Checklist

Installation and configuration of the FMA-LG101 requires the following hardware, equipment, and software.

At the Head End

- Contents of FMA-LG101 carton:
 - FMA-LG101 unit (with attached rack mount brackets)
 - Power supply (12V DC 1.25A)
 - 75 ohm coaxial terminator (FMA-LG101 RF IN port termination)
 - 7-foot Ethernet crossover cable (direct connect PC to configure FMA-LG101)
 - 50 MHz low pass filter (6MLP-50)
- Configuration of the FMA-LG101 requires a PC with an Ethernet port and the FTG Configuration Application v5.0.0 or higher installed. FTG Configuration Application software is available online at: **www.LGcommercial.com/FTGSoftware**.

At the Room

- An LG TV must be equipped with one of the following FTG devices:
 - EBL (Embedded b-LAN™)
 - LMT7Z9 MPI card
 - LMT7Z7 MPI card (requires firmware update) *

* Please contact the LG Sales team to obtain a Firmware Update (.mot) file. You can then use the Firmware Downloader Utility available from the FMA-LG101 software web page to upload the latest firmware to the FTG device(s).

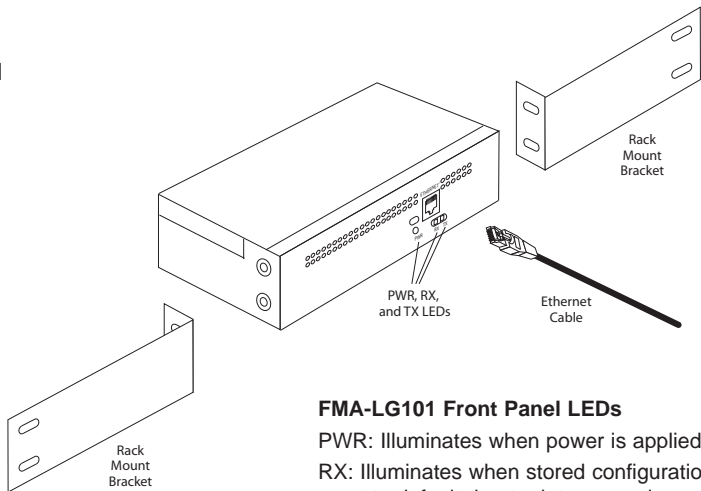
Note that an HCS1410 FTG card is not compatible with the FMA-LG101.

Refer to the ***FMA-LG101 Installation & Configuration Guide*** for further installation and configuration information and complete safety instructions. FMA-LG101 documentation is available online at: **www.LGcommercial.com/product/FMA-LG101**. Click the **Downloads & Images** tab on the FMA-LG101 page, and select the required document from the Downloads list.

FMA-LG101 Installation Notes

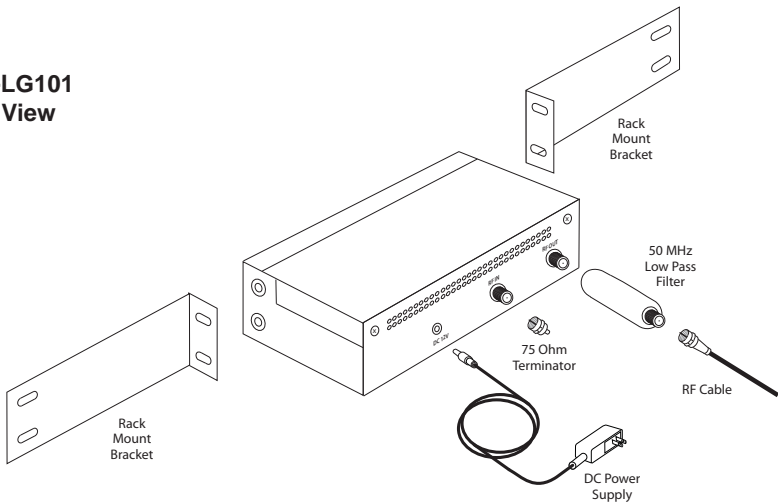
- The AC outlet providing power must be installed near the FMA-LG101 and be easily accessible.
- The FMA-LG101 should be installed in a restricted access location.

FMA-LG101
Front View



FMA-LG101 Front Panel LEDs
PWR: Illuminates when power is applied to the unit.
RX: Illuminates when stored configuration has been reset to default due to data corruption.
TX: Flashes when data is being transmitted on the RF OUT port.

FMA-LG101
Rear View



Installing the FMA-LG101 in the Equipment Rack

- Refer to the FMA-LG101 diagrams on page 4, and complete the following steps to install the FMA-LG101 in the equipment rack.
1. As shipped, the FMA-LG101 rack mount brackets are attached inward, covering the front panel of the FMA-LG101 unit. Detach and then re-attach the rack mount brackets to the FMA-LG101 as shown in the diagrams on the previous page.
 2. Mount the FMA-LG101 in the equipment rack.
 3. Complete all connections as indicated in the FMA-LG101 Rear and Front Panel Connections table below.
 4. Plug the power supply for the FMA-LG101 in to an AC outlet (or the rack power strip, if applicable), and then connect the 12V DC output to the FMA-LG101.
 5. Wait at least 30 seconds for the FMA-LG101 to power ON and and obtain network settings from a DHCP server or load its default network settings.
 6. Configure the FMA-LG101 as described on page 7.

FMA-LG101 Rear and Front Panel Connections

Port Name		Description
Rear Panel	RF OUT	Connect the 50 MHz low pass filter and coaxial RF cable from the RF distribution system combiner. Note: The 50 MHz low pass filter protects RF channels 2 and 3 from any potential RF interference produced by the FMA-LG101.
	RF IN	Not applicable; connect the 75 ohm terminator.
	DC 12V	Connect the 12V DC power supply shipped with the FMA-LG101.
Front Panel	ETHERNET	Make the appropriate connection based on the system setup: <ul style="list-style-type: none">• Network Ethernet connection: Connect an Ethernet straight-through cable (not supplied) from the network. The FMA-LG101 must be connected to a network with a DHCP server <i>before</i> power is applied.• Direct Ethernet connection: Connect the supplied Ethernet crossover cable from a PC. Refer to “FMA-LG101 Ethernet Connection/Network Options” on page 6 for further information.