



## Grandstream Networks, Inc.

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GXP1620/1625/1628 Business IP Phone

Multicast Paging User Guide



# GXP1610/1620/1625/1628 Multicast Paging User Guide

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## INTRODUCTION

Multicast paging is an approach to let different SIP users to listen to a page from a common multicast IP address. In multicast page call, one way audio will setup from sender to listeners, but the listeners cannot talk to each other. The sender and listeners must be located within the same LAN. Users could configure line keys or multi-purpose keys to send multicast paging. Also GXP1610/1620/1625/1628 is capable to listen up to 10 different multicast addresses by following defined preference. This document serves as an end user guide on how to configure multicast page on the GXP1610/1620/1625/1628.

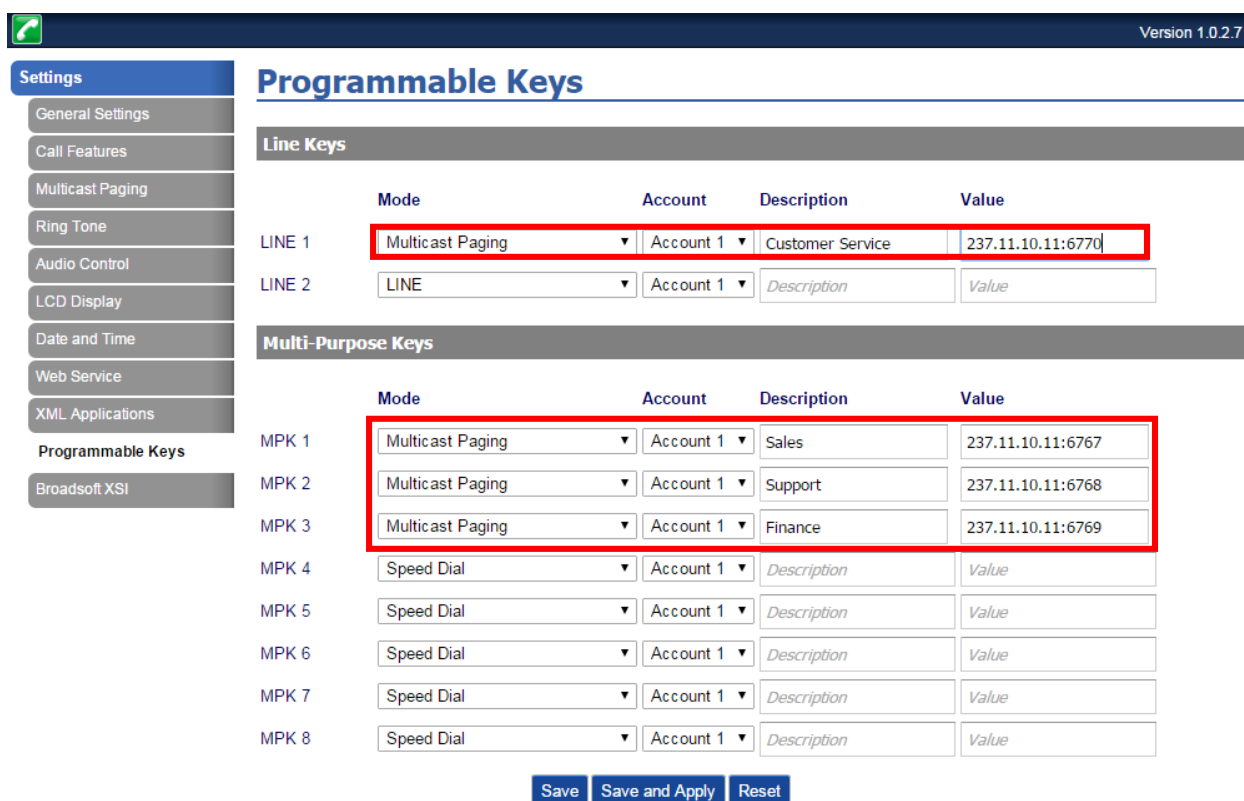
To learn more about GXP1610/1620/1625/1628's basic and advanced features, please visit <http://www.grandstream.com/support> to download the latest "GXP1610/1620/1625/1628 User Guide" and "GXP1610/1620/1625/1628 Administration Guide".

## SENDING MULTICAST PAGING CONFIGURATION

Sender multicast page configurations are under GXP2130/GXP2140/GXP2160's Web UI **Settings** -> **Programmable Keys** -> **Line Keys/Multi-Purpose Keys OR Setting** -> **Multi-Purpose Keys**.

1. Set the key Mode to Multicast Paging in dropdown list.
2. Enter the multicast paging description in Description field.
3. Enter multicast paging address and port in Value field. The range of multicast page address is 224.0.0.0 to 239.255.255.255 with a port not in use by phone.

**Figure 1** show the example of setting Line Keys/MPK to multicast page sending key



Version 1.0.2.7

### Programmable Keys

#### Line Keys

	Mode	Account	Description	Value
LINE 1	Multicast Paging	Account 1	Customer Service	237.11.10.11:6770
LINE 2	LINE	Account 1	Description	Value

#### Multi-Purpose Keys

	Mode	Account	Description	Value
MPK 1	Multicast Paging	Account 1	Sales	237.11.10.11:6767
MPK 2	Multicast Paging	Account 1	Support	237.11.10.11:6768
MPK 3	Multicast Paging	Account 1	Finance	237.11.10.11:6769
MPK 4	Speed Dial	Account 1	Description	Value
MPK 5	Speed Dial	Account 1	Description	Value
MPK 6	Speed Dial	Account 1	Description	Value
MPK 7	Speed Dial	Account 1	Description	Value
MPK 8	Speed Dial	Account 1	Description	Value

**Figure 1: Sending Multicast Page Configuration by using Line Keys and MPKs**

GXP1610/1620/1625/1628 supports 7 codecs for Multicast Paging. User can specify the multicast page sending codec under Web UI **Settings** -> **Multicast Paging** -> **Multicast Paging Codec**. The supported codecs are PCMU, G.723.1, G.729A/B, PCMA, G.726-32, iLBC and G.722.

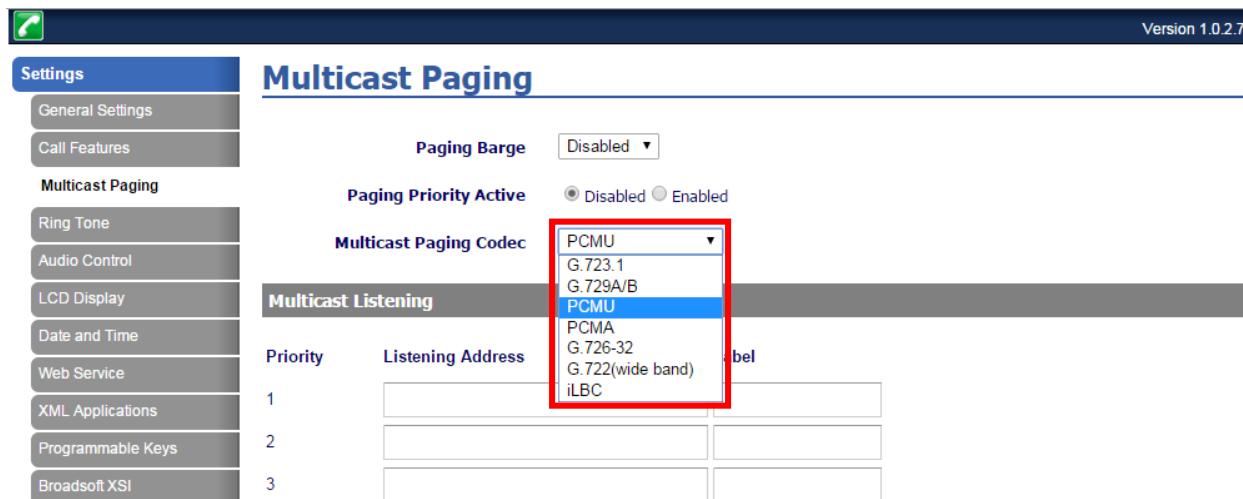


Figure 2: Selecting Multicast Paging Codecs

## SEND MULTICAST PAGING CALL

After configuring the sender multicast page, users could make a multicast page to remote parties.

1. Press the configured MPK or Line Key to send a multicast page. The LED light of the associated line key will turn green and the phone screen will show the multicast address with defined label. See Figure 3 Multicast Page screen.
2. Press the “EndCall” soft key to end the multicast paging.

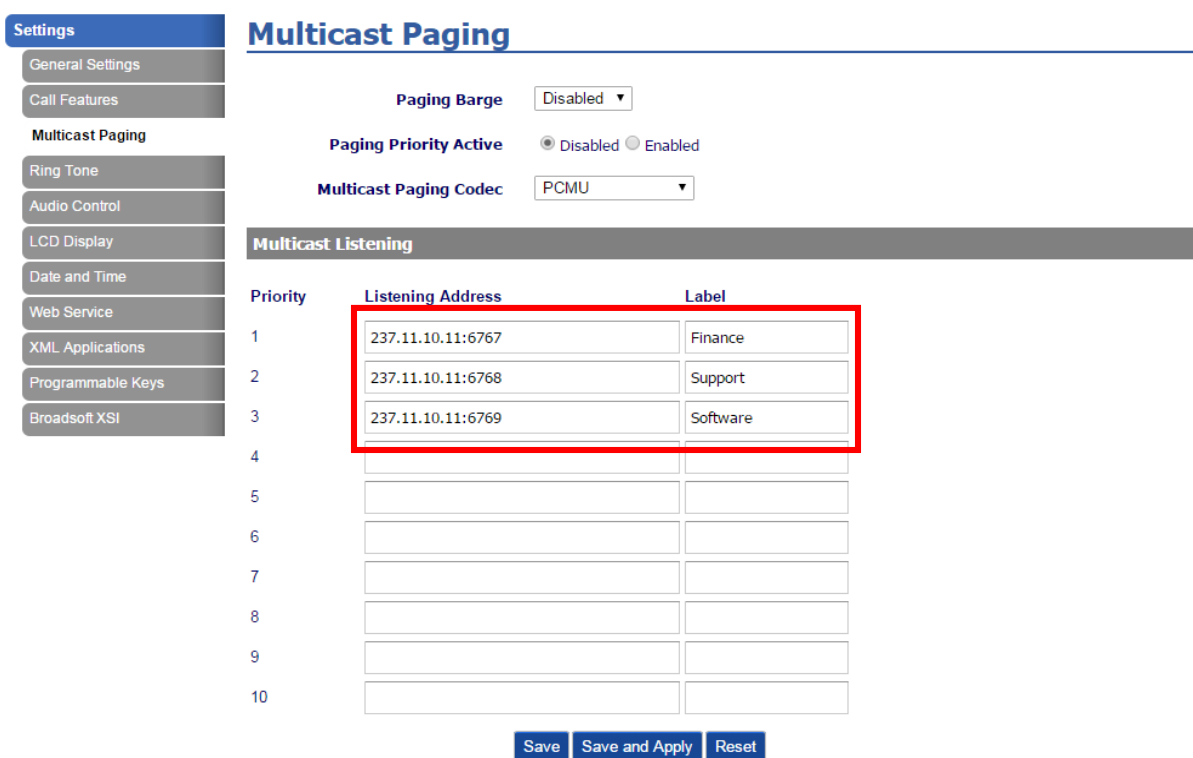


Figure 3: Multicast Paging Screen

## RECEIVING MULTICAST PAGING CONFIGURATION

To receive multicast page, GXP1610/1620/1625/1628 must be well configured to listen to the right address and port. The configurations are under **Settings->Multicast Paging**. There are 10 listening address supported with priority levels 1 to 10. Optionally, each of these addresses can also have a label that will display on LCD when the page is received.

**Note:** The multicast page configuration requires rebooting to take effect.



**Settings**

- General Settings
- Call Features
- Multicast Paging**
- Ring Tone
- Audio Control
- LCD Display
- Date and Time
- Web Service
- XML Applications
- Programmable Keys
- Broadsoft XSI

### Multicast Paging

Paging Barge: Disabled

Paging Priority Active:  Disabled  Enabled

Multicast Paging Codec: PCMU

#### Multicast Listening

Priority	Listening Address	Label
1	237.11.10.11:6767	Finance
2	237.11.10.11:6768	Support
3	237.11.10.11:6769	Software
4		
5		
6		
7		
8		
9		
10		

Save Save and Apply Reset

Figure 4: Receive Multicast Paging

Settings ->Multicast paging	
Paging Barge	During active call if incoming multicast page's priority is higher than this value, the call will be held and multicast page will be played.
Paging Priority Active	If enabled, during a multicast page if another multicast is received with higher priority, that one will be played instead.
Multicast Paging Codec	The codec for sending multicast pages, there are 7 codecs could be used: PCMU, PCMA, G.723.1(pending), G.726-32, G.729A/B, G.722(wide band). The default setting is "PCMU".
Multicast Listening	Defines multicast listening addresses and labels. GXP16xx phone can listen to at most 10 multicast addresses with different priorities.

Table 1: Receiving Multicast Paging Configuration

## PAGING BARGE

This option is to control the priorities between multicast page and common SIP call. Available options are Disabled and numbers 1 to 10. If the option is set to disabled then all incoming pages are ignored while in call.

When the option is set to number, Paging Barge is enabled. If the number of Paging Barge is higher than an incoming page's priority value (determined by the position in the list 1-10) then the incoming page is not played. Similarly, if the Paging Barge value is lower than an incoming page's priority value, and then the active SIP call will be held.

As an example, in **Figure 3**, the Paging Barge is configured as 3. During an active call if incoming multicast page priority is greater or equal to 3, the current active call will be held, and page will be played. However, if the incoming multicast page priority is 1 or 2, the current active call will be kept.

## PAGING PRIORITY ACTIVE

This option is to control the priorities among different multicast pages. If the option is disabled, the phone ignores any incoming pages when a page is already being played. Otherwise, incoming pages with a higher priority will be played instead of the current page. For example, if the phone is playing a page whose priority is 5 and there is an incoming page with priority 3, the priority 5 page will stop and the priority 3 page will play instead.

## RECEIVE MULTICAST PAGING CALL

After multicast page listening well configured, please reboot the phone to let the settings take effect. When there is a page on the listening address and port, the phone will play the incoming audio automatically. User can press "EndCall" softkey to end the page.