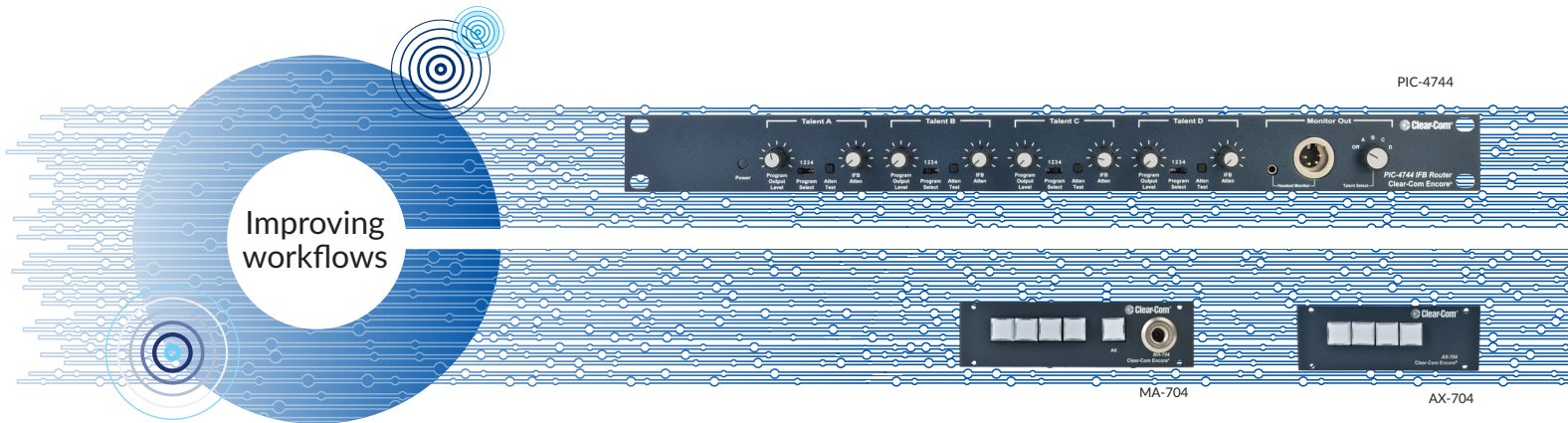


Program Interrupt and IFB System

Analog Partyline Solutions



Key Features and Benefits

- Wet/Dry switch to access 3rd party wireless IFB, console input, recording devices, etc.
- Four separate program inputs and individual program level controls XLR cables
- Program attenuation individually adjustable for each talent output
- Compatible with all Encore main and remote stations
- Works as a standalone system or integrated with Clear-Com intercom station
- Expansion of up to 96 talent channels between connected systems
- Modular access stations expandable in group of four
- Up to 12 talent access buttons in 1RU
- “Tally” lights indicate IFB channels in use
- “ALL IFB” button simultaneously accesses all IFB channels

The Program Interrupt and IFB System allows talent to monitor the ongoing program while permitting directors and producers to interrupt or dip the program audio with cues or instructions.

PIC-4744 IFB Router

The PIC-4744 provides four XLR3M analog partyline level audio outputs (Talent channels) and four XLR3F analog line level audio inputs (Program channels). Each Talent channel can select and place one of the four program sources to the output. A front panel variable trim pot is supplied for adjusting the source level to the output. Connections to control stations, typically used for a director to cue talent, are provided for interrupting the source input to the audio output. The PIC-4744 can interrupt the program source with variable attenuation. Each Talent channel carries a composite of three signals; the program audio, the cue audio and the dip or mute control. Multiple PIC-4744 panels can be used together if more than four audio outputs are needed.

Talent Access Stations

Each talent access station contains four momentary pushbuttons, each of which is associated with a separate talent output from a PIC-4744 Controller. All pushbuttons contain “tally” lamps to indicate IFB channels in use. An optional rack mount kit holds up to three access stations, providing control of 12 IFB channels in one rack space.

The MA-704 Master Control and Talent Access Station provides individual access to the four Talent channels. The ALL button simultaneously accesses all Talent positions of the MA-704 and each AX-704 expansion station. It contains the audio line-driver circuits for cue audio. One MS-704 is required at each talent access control location.

The AX-704 Expansion Station connects to an MA-704, expanding the IFB channel selection capabilities by four additional channels per AX-704. Multiple AX-704's may be linked together to control a maximum of 96 talent channels.

Program Interrupt and IFB System

Analog Partyline Solutions

Legend

PIC-4744

1. IFB Talent Access Station Output
2. Power
3. Output to Talent Receiver (A - D)
4. Wet/Dry Switch
5. Program Input (1 - 4)

MA-704

1. IFB Access Station Input
2. IFB Talent Access Station Extension Output
3. Mic Gain Adjust
4. Hot Mic Extension Output
5. Hot Mic Input

AX-704

1. IFB Access Station Input
2. IFB Talent Access Station Extension Output
3. Hot Mic Extension Output
4. Hot Mic Input

Order Codes

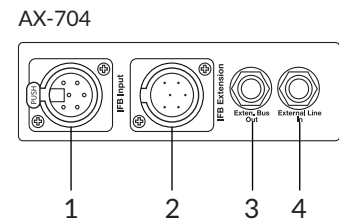
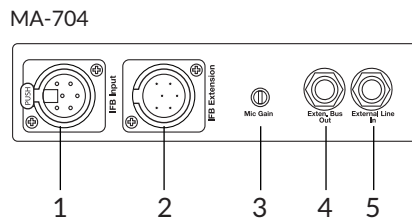
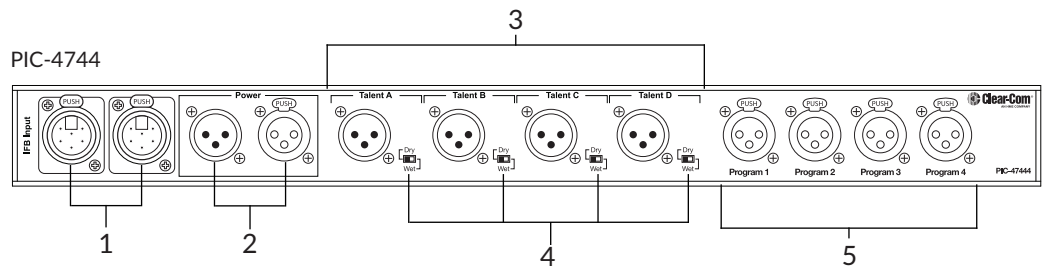
Part Number and Description

PIC-4744: IFB Router

MA-704: Master Control and Talent Access Station

AX-704: Talent Access Expansion Station

CEP-RK: Optional rackmount kit for the MA-704 and AX-704



Program Interrupt and IFB System

Analog Partyline Solutions

Technical Specifications

dBu is an absolute measurement. 0 dBu is referenced to 0.775 volts RMS

PIC-4744

Program Line Input

Maximum Level before Clipping: ≥ 20 dBu
Input Impedance: ≥ 5 K Ω

Audio

Output Level for Talent: Clear-Com Partyline
Output Level for Talent: Clear-Com Partyline Level (approx. -10 dBu)
PGM Source Adjustable Range: +20 dBu
Attenuation Adjustable Range: 50 dBu

Frequency Response

Panel Input - Talent: 200 - 18 KHz ± 3 dB

Max Distortion

Program Input - Talent: $\leq 0.1\%$

Noise

Program Input - Talent: < -85 dBu

Power

Input Voltage Range: 20-30 VDC
Input Current: ≤ 90 mA

Rear Panel Connectors

IFB Input: (2) XLR6F
Power Loop Through: (1) XLR3M, (1) XLR3F
Talent Out: (4) XLR3M
Program In: (4) XLR3F
Wet/Dry Switch: (4)

Front Panel Controls & Indicators

(1) Power indicator LED
(4) Program Output level controls
(4) Program Select input switches
(4) Attenuation (Atten) test buttons
(4) Auto Attenuation (Atten) Adjust level controls
(2) Headset Monitor ports (3.5mm and XLR)
(1) Monitor select switch

Environmental

32°F - +122°F (0°C - +50°C)

Dimensions

19 x 1.75 x 7.5 in (WxHxD)
(483 x 44 x 190 mm)

Weight

5.76 lbs (2.6 kg)

MA-704

Panel Microphone Input

Input Type: Electret
Input Impedance: ≥ 2 K Ω
Mic Limiter Threshold: 0 dB ± 3 dB
Mic Limiter Range: ≥ 15 dB

Frequency Response

Panel Mic - Talent: 200 - 18 KHz ± 3 dB
Extension Line - Talent: 200 - 18 KHz ± 3 dB

Max Distortion

Panel Mic - Talent: $\leq 0.5\%$
Extension Line - Talent: $\leq 0.1\%$

Noise

Panel Mic - Talent: < -65 dBu
Extension Line - Talent: < -85 dBu

Max Gain

Panel Mic - Talent: ≤ 40 dB
Program Input - Talent: ≤ -45 dB

Power

Input Voltage Range: 20-30 VDC
Input Current (Idle): ≤ 140 mA
Input Current (Max): ≤ 180 mA

Rear Panel Connectors

IFB Input: (1) XLR6F
IFB Extension: (1) XLR6M
Extension Bus Out: (1) 1/4 jack
External Line In: (1) 1/4 jack
Mic Gain: (1) Gain adjust

Front Panel Controls & Indicators

(5) Talk buttons
(1) 1/4 microphone jack socket

Environmental

32°F - +122°F (0°C - +50°C)

Dimensions

6.3 x 1.75 x 5.5 in (WxHxD)
(160 x 44 x 140 mm)

Weight

1.71 lbs (0.78 kg)

AX-704

Frequency Response

Extension Line - Talent: 200 - 18 KHz ± 3 dB

Max Distortion

Extension Line - Talent: $\leq 0.1\%$

Noise

Extension Line - Talent: < -85 dBu

Power

Input Voltage Range: 20-30 VDC
Input Current (Idle): ≤ 120 mA
Input Current (Max): ≤ 150 mA

Rear Panel Connectors

IFB Input: (1) XLR6F
IFB Extension: (1) XLR6M
Extension Bus Out: (1) 1/4 jack socket
External Line In: (1) 1/4 jack socket

Front Panel Controls & Indicators

(4) Talk buttons

Environmental

32°F - +122°F (0°C - +50°C)

Dimensions

4.9 x 1.75 x 5.5 in (WxHxD)
(125 x 44 x 140 mm)

Weight

1.35 lbs (0.61 kg)



www.clearcom.com

© Clear-Com and the Clear-Com logo are registered trademarks of HM Electronics, Inc. Copyright © 2016. Clear-Com, LLC. All rights reserved.

Notice About Specifications

While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.