

Technical Data Sheet

Innovating the Future of Global Communications

ES-4000A

Intercom Expansion Station

The ES-4000A is an Expansion Station for the US-2002 User Station. It interfaces four (4) additional intercom channels to the US-2002, and it provides talk, listen and call buttons for the four (4) additional channels. There are also four (4) additional program inputs on the back of the ES-4000A, one (1) for each added channel. Up to four (4) ES-4000A Expansion Stations may be connected to the US-2002 to add up to 16 channels (18 channels total). The ES-4000A typically utilizes the US-2002 microphone and speaker (or microphone headset) for communication with the added channels. The ES-4000A also has individual speaker outputs for independent monitoring of one (1) or more of the four (4) channels if desired.



Features

Digi-Latch Technology

Separate Listen, Call, and Talk buttons with Digi-Latch technology gives users complete control of system communications while maintaining ease of operation.

Backlit Buttons

Backlit buttons with lettering on the button allows users to see which button to push even in darkened room environments.

Rack Mountable

Rack mountable in a variety of modular configurations with one (1) of several optional rack mount kits.

Mic Kill

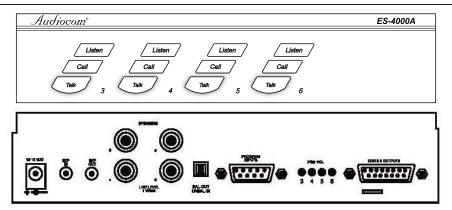
Turn off all microphones on a selected expansion channel, or all channels, using the master station's Mic Kill key.

Dedicated Program Inputs

Each expansion channel has its own program input. Connect any line-level audio source for monitoring in the master station's speaker or headset and for routing to the expansion channel if desired. When program audio is routed to the channel it can be set to interrupt while the master station operator is talking on the channel.

Clear-Com Compatible

Line Drawings



Specifications

General	Frequency Response
Power Requirements:	EXP IN to/from Channel, EXP IN to/from EXP OUT,
Voltage:	Channel to Speaker: 200 Hz to 8 kHz +1/-3 dB
Phantom Power:24 VDC nominal (12 to 30 VDC)	Total Harmonic Distortion:Less than 0.5 %
Local Power (with PS-L Wall-pack Power Supply	Connector Pin-outs
or equivalent):	12-15 VDC Jack
Current:65 mA, quiescent; 150 mA maximum	Connector Type: 2.0 mm DC jack
Dimensions: 1.75" (44.5 mm) high,	Internal pin:+12 to 15 VDC
8.25" (209.6 mm) wide,	External Ring:Common
10.0" (250 mm) deep	EXP IN Jack
Environmental Requirements:	Connector Type:
Storage:20°C to 80°c; 0% to 95% humidity,	Tip: Listen input
non-condensing	Ring:Talk output
Operating:15°c to 50°C; 0% to 95% humidity,	Sleeve:
noncondensing	EXP OUT Jack
Intercm Channels,Balanced Mode	Connector Type:
(BAL/UNBAL switch set to BAL position)	Tip:
Output Level:	Ring: Listen input
Input Impedance: 300 Ω	Sleeve:
Bridging Impedance: greater than 10,000 ohms	SPEAKER Jacks
Sidetone:40 dB, 35 dB adjustable range	Connector Type:
Call Signaling:	Tip:
Send:	Sleeve:
Receive:	PROGRAM INPUTS Connector
Mic-Kill Frequency:	Connector Type:DB-9F Female, 9-pin D-subminiature
Send:	Pin 1:
Receive:	Pin 2:
Noise Contribution: less than -70 dB	Pin 3:Channel 4 program in low
Common Mode Rejection Ratio:greater than 50 dB	Pin 4:Channel 5 program in low
Intercom Channel, Unbalanced Mode	Pin 5:Channel 6 program in low
(BAL / UNBAL switch set to UNBAL position)	Pin 6:
Output Level:	Pin 7: Channel 4 program in high
Input Impedance:	Pin 8: Channel 5 program in high
Bridging Impedance:	Pin 9: Channel 6 program in high
Sidetone:40 dB, 35 dB adjustable range	CHANNEL 3-6 OUTPUTS Connector
Call Signaling:	Connector Type:DB-15F Female, 15-pin D-subminiature
Send:	Pin 1:Channel 3 intercom audio input/output high
Receive:4 VDC	Pin 2: Channel 3 intercom audio input/output low
Speaker Output	Pin 3:Common
Level: 1.0 Vrms, ±2 dB (0 dBu nominal)	Pin 4:Channel 5 intercom audio input/output high
Impedance:	Pin 5: Channel 5 intercom audio input/output low
Program Input	Pin 6:Common
Voltage Gain Adjustment Range	Pin 7:Common
(program Input to channel	Pin 8:Common
output, with 100 mVrms input): 25 ±3 dB (2.6 Vrms maximum,	Pin 9:Common
unit is factory-set to 1.0 Vrms)	Pin 10:Channel 4 intercom audio input/output high
Input Impedance:Balanced, 75 K ±10%;	Pin 11: Channel 4 intercom audio input/output low
unbalanced,38 K ±10%	Pin 12:Common
	Pin 13:Channel 6 intercom audio input/output high
	Pin 14: Channel 6 intercom audio input/output low

Order Information

ES-4000A • Intercom Expansion Station

For ordering information, contact your regional sales representative at: http://rtsintercoms.com/us/intercom/contact

The specification information is preliminary and is subject to change without notification. Brand names mentioned are the property of their respective companies.

