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TECHNOLOGY GROUP

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Find the *Advanced Simulation Technology ACU2-04-01* at our website: *Click HERE*

ACE Communication Unit - 2nd Gen (ACU2)

The ACU2 is a compact 48kHz digital and audio distribution device that connects remotely located operator headsets, speakers, control panels and other peripherals to a central Target via the ACENet architecture. The ACU2 evolved from the ACU to provide 4 channel stereo support in a reduced size.



General Specifications

Compatible with	Telestra , Voisus
Part Number	ACU2-04-XX
Dimensions	7.5" length x 7" width x 1.55" height
Weight	A packaged ACU2 weighs 2lbs. The included power supply weighs 0.5 lbs
Power Source	Individual power supply, included. Can be daisy chained*. *Requires a different power supply, contact ASTi for details.
Power Consumption	+15VDC, 2 A
Mean Time Between Failure (MTBF)	108,100.75 Hours (COTS) 48,390.23 Hours (Mil)

Audio Input/Output

	Audio Input
Impedance	4.6 kΩ
Level	3.25 Vpp max (6.5Vpp differential)
Gain	-8dB, +2dB to +57dB, software configurable*
Microphone Power	+12.5 VDC, software enabled
Frequency Response	20 Hz to 20 kHz, +/-1.5dB

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* The ACU2 gain covers a total gain range of 65dB, with the range +2dB to +57dB being settable in 1dB steps, with -8dB being available for input signals of greater than line-level. The range -8dB to +2dB CANNOT be selected as a function of design

	Audio Output
Impedance	10 Ω
Current	0.201 A at 8 Ω
Gain	-25dB to + 10dB
Level	1.61 VAC rms into 8 Ω
Power	0.32 W at 8 Ω
Frequency Response	20 Hz to 20 kHz
Max. Output Signal	10 Vpp

Memory Devices

This device works as a transportation mechanism, passing audio from one device to another until it reaches the headset or PC; this device does not store the audio.

Volatile Memory

Memory whose contents are lost when power is removed.

Type	Size	User Modifiable	Function	Process to Clear
Micro-controller Internal SRAM	69 KB	No	Used as RAM for an internal MCU	Remove Power Count to 30 Restore Power

Non-Volatile Memory

Memory whose contents are retained when power is removed.

Type	Size	User Modifiable	Function	Process to Clear
Micro-controller Internal	256 KB	Yes	Firmware	None
Flash	8 Mb	Yes	Firmware	None

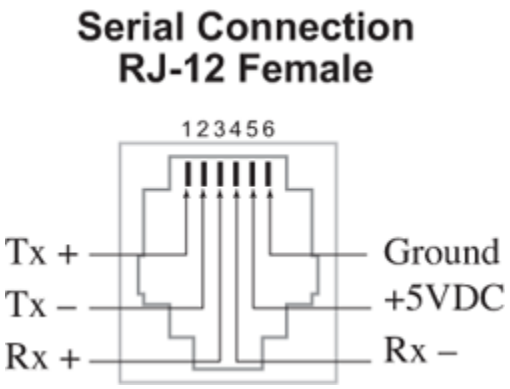
Media

The ACU2 does not contain media storage capability (i.e., removable or non-removable disk drives, tape drives, memory cards, etc.)

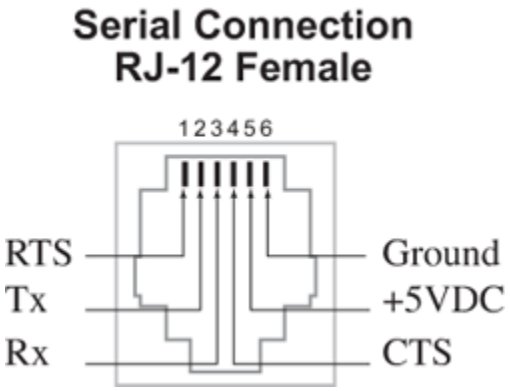
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Pinouts

Serial Connection

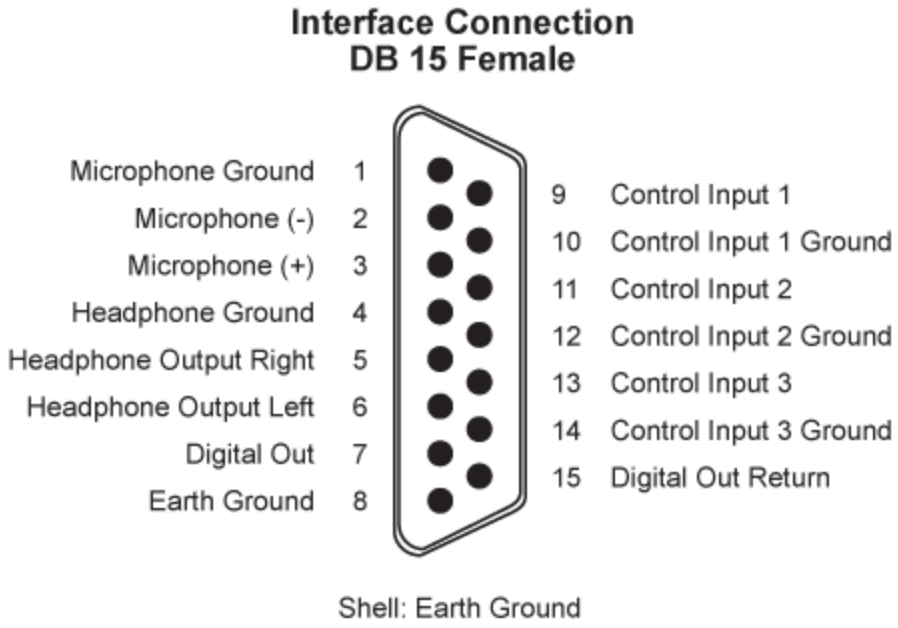
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  RJ-12 Pinout for RS-422 Mode

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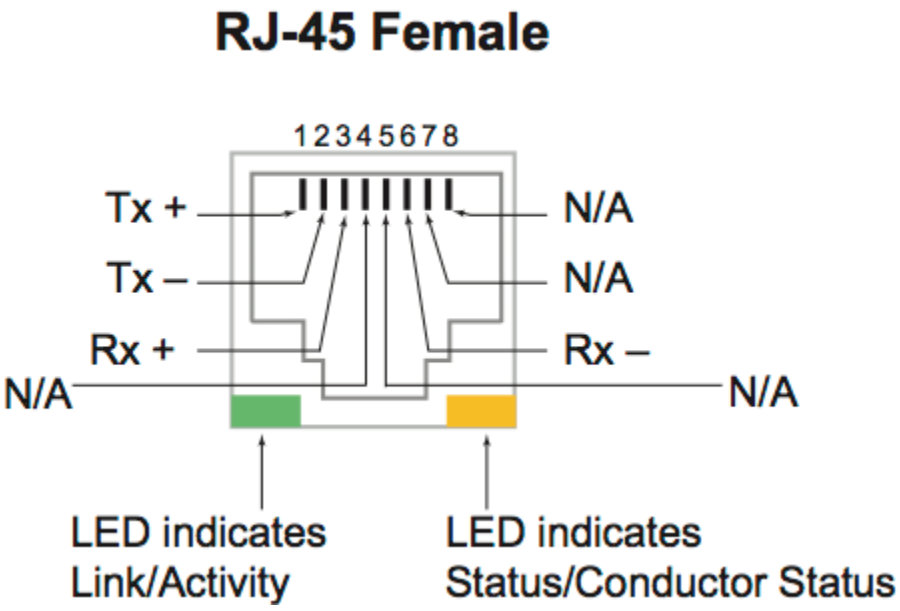
  RJ-12 Pinout for RS-232 Mode

- **Audio Interface Pinout**



DB-15 Connector Pinout Diagram

- **ACENet Connection**



RJ-45 Pinout Diagram

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