

# ACROBAT System Components



## Acrobat WB-2 – Wireless Beltpack / Headset Station

The Acrobat Wireless Beltpack is a light and compact, digital headset station with two individually configurable channels for intercom and IFB use. Operation is intuitive and follows the concept of Riedel's Performer C3 Digital Partyline Beltpack. Two large rotary level controls on top of the beltpack combine the talk-key and volume-control for each channel. Turning the controls adjusts the listen volume, pushing the controls toggles talk on/off with momentary or latching operation. Activation is indicated by a talk-LED, and a bright call light indicates an incoming call. The beltpack features a colour display which by default shows the labels for both talk-keys and two user-definable function keys. In addition, the display gives the user access to the intuitive configuration menu. The Acrobat wireless beltpack has an XLR connector for headset and a RJ45-port for firmware updates. A fully charged RB-2300 Rechargeable Battery allows for eight hours of operation. The rugged housing with rubber protectors houses the internal antenna.



## Acrobat CA-6 – cell Antenna

The Acrobat Cell Antenna is connected to the Acrobat CC-8 or Acrobat CC-60 Cell Controller via Ethernet, allowing the use of existing standard structured cabling and providing a wide area between Cell Controller and Antennas. The Cell Antenna is powered via Power-over-Ethernet (PoE), simplifying installations by eliminating local power-supplies. The Acrobat Cell Antenna has a range of approx. 330 feet (100 meters) under line-of-sight conditions.

## Acrobat RB-2300 – Rechargeable Battery

The light and powerful rechargeable Lithium-Ion battery Acrobat RB-2300 provides the Acrobat Digital Wireless Beltpack eight hours of operation.



## Acrobat BC-1000 / BC-6000 – Battery Charger

The Acrobat BC-1000 Battery charger safely and quickly charges a RB-2300 Battery (Acrobat BC-6000: six batteries).

## Specifications Acrobat Digital Wireless Intercom

	Acrobat WB-2 Wireless Beltpack	Acrobat CC-8 Partyline Cell Controller		
<b>Overall</b>				
Operation frequency	1,880 – 1,930 MHz DECT* (license-free)			
Number of Beltpacks per Base Station/Antenna		18		
Number of Cell Antennas per Acrobat Cell Controller / Base Station		4x (max. 35 via external Ethernet switches; max. 2 cascaded)		
Number of partylines	2 per beltpack	18 per cell controller		
Beltpack-to-Beltpack / Beltpack-to-Base Station frequency response	100 Hz – 7.1 kHz	100 Hz – 7.1 kHz		
Single antenna range	approx. 100m line-of-sight (330 ft. line-of-sight)			
<b>Microphone Preamp</b>				
Mic input impedance	1 kOhm			
Dynamic mic input level	> -52 dBu @ 1 kHz			
Electret mic input level	> -38 dBu @ 1 kHz			
<b>Headphone Amplifier</b>				
Load impedance	32 – 600 Ohms			
Max. output power	255 mW / 600 Ohms			
Signal-to-noise-ratio	> 70 dB (A)			
Headset connector	1x XLR4M			
<b>Connections</b>				
MADI				
Analog 4-Wire		8x		
GPIO		12x		
Ethernet		4x PoE + 1x Config		
<b>Power</b>				
Power requirements	7.2 V DC	85 – 265 V AC / 47 – 63 Hz		
Power consumption	2.2 W (approx. 8 hours per battery)	120 VA		
Battery type	LiON			
<b>Dimensions</b>				
H x W x D	126 x 105 x 39 mm (5" x 4.1" x 1.5")	88 x 483 x 230 mm (2 RU x 19" x 9")		
Mass	580 g (1.27 lb / incl. battery)	2.4 kg (5.29 lb )		

\* Russia: 1,880 – 1,900 MHz / USA: 1,920 – 1,930 MHz / Singapore: 1,880 – 1,900 MHz, 250 mW



## Acrobot CC-8

### Partyline Cell Controller / Base Station

The Acrobot Cell Controller serves as the heart of any Acrobot Digital Wireless Intercom installation. The device handles the VoIP-over-DECT cell management including cell synchronization, channel coordination, seamless handover as well as the audio coding and IP transfer. The 19"/2RU unit connects to any partyline or matrix intercom via eight analog 4-wire ports and 12 GPIOs. Four powered RJ45 Ethernet connectors for the direct connection of up to four Acrobot Cell Antennas complete the Cell Controller's interfacing. For further coverage up to 35 additional Cell Antennas can be connected via Ethernet network switches. The configuration of the Cell Controller is achieved via a web interface.

## Acrobot CC-60/CC-120

### Wireless Control Panel Controller / Base Station

The Acrobot CC-60 Wireless Control Panel Controller focuses on wireless intercom applications demanding for a matrix-like intercom approach. The 19"/2RU unit intelligently connects to Riedel Artist intercoms via MADI. The CC-60 can handle up to 60 Wireless Beltpacks / Control Panels (CC-120: 100 Wireless Beltpacks). Each beltpack uses one port in the Artist system and operates just like a wired 2-key Artist control panel. The beltpacks are configured via the Director configuration software. Each key can be configured with any function including call-to-, call-to-conference or even multiple commands per key. All audio and command processing is handled by the Artist system – the CC-60 provides the VoIP-over-DECT cell management including cell synchronization, channel coordination, seamless hand-over and the audio coding and IP transfer. The RJ45 Ethernet port can connect up to 100 Acrobot Cell Antennas via external PoE Ethernet network switches.