RDL®

High Performance Audio Products. Made in America.

RACK-UP® SERIES
Models RU-BTLA
Bluetooth® Line-Level Audio & Format-A Interface

- Bluetooth 5.3 Audio Input for Installed Sound Systems
- Bluetooth LE (CIS) and Bluetooth Classic (A2DP) Audio Supported
- Supported Codecs: LC3 (BLE), AAC & SBC (A2DP)
- Intuitive Front-Panel Single Button Pairing with LED Status Indication
- Extended Range Under Ideal Conditions, Up To 100 Meters from a Class 1 Device (Pairing and Connection Range is Limited by Connected Device's Range)
- Rack-Mounted, Free-Standing or Surface-Mounted Operation
- Module Setup Using a Terminal Program or a Bluetooth-Equipped Computer
- Customizable Module ID Name and Programming via Bluetooth Connection
- Supports One or Two RDL Pairing/Status Remote Controls (*-RBTP), Available Separately
- Remote Pairing Connections Compatible with Third-Party Dry Contacts
- Stereo Line-Level Balanced +4 dBu XLR and -10 dBV Unbalanced RCA Outputs
- Front-Panel Switch-Selectable Stereo or Mono Line-Level Outputs
- Front-Panel Flush Slotted Attenuator for XLR and RCA Line-Level Outputs
- Front-Panel Switch-Selectable Stereo or Mono Format-A Outputs
- Format-A Mono Outputs Switch-Selectable to Feed Pair A, B or C
- Format-A Stereo Outputs Feed Pairs B (Left Channel) and C (Right Channel)
- In Mono Mode, Daisy-Chain up to Three RU-BTLA Modules to One Format-A Receiver
- Any or All Audio Outputs May Be Used Concurrently
- Locally Powered by 24 Vdc or Remotely Powered Over Twisted Pair Cable from Format-A Receiver
- Format-A Signal and Power Pair Pass-Through on RJ45 Jacks

APPLICATION: The RU-BTLA is a Bluetooth audio receiving module with three sets of audio outputs: Balanced line-level XLR jacks, unbalanced line-level RCA phono jacks, and RDL® Format-A twisted pair RJ45s. Format-A outputs are at a fixed level and may be configured mono or stereo on a recessed front-panel slide switch. The line-level outputs are all controlled by a single adjustable LEVEL attenuator on the front panel, configured mono or stereo on a recessed front-panel slide switch. All outputs may be used simultaneously.

Pairing is initiated by a front-panel pushbutton. Pairing status is displayed on associated LEDs. A rear-panel terminal block allows the RU-BTLA pairing functions and status to be remote controlled by one or two separately available RDL remote controls. Pairing may be remotely initiated by dry contact closure.

The RU-BTLA can be sequentially paired with an unlimited number of Bluetooth devices. The most recently paired seven devices are retained in memory for re-pairing. Upon pairing to a new device, the oldest stored device is automatically deleted.

When paired with a compatible Bluetooth-enabled device, the module receives stereo audio from the Bluetooth source. The stereo Bluetooth audio feeds the line outputs. The stereo signal is also sent through two Format-A pairs to any RDL Format-A receiver (available separately). A stereo/mono switch set by the installer permits summed mono audio to be sent over one switch-selected pair to the Format-A receiver. All audio outputs are muted when the RU-BTLA is not paired.

With stereo operation selected, an additional Format-A source (set to Pair A) may be daisy chained with the RU-BTLA to a three-pair Format-A receiver. With mono operation selected, up to three RU-BTLA modules may be daisy chained to a single three-pair Format-A receiver. Connections between Format-A modules use standard CATx cable with RJ45 connectors.

The RU-BTLA modules may be powered from a Format-A receiver or from an external 24 Vdc power supply (available separately). When external power is applied to the RU-BTLA, power is sent out the Format-A jacks to other connected devices. The installer can customize the module name and programming password through the Bluetooth connection using a smartphone, computer or tablet terminal program. These modules feature studio-quality circuits and analog filters to provide audio performance exceeding expectations from consumer interface technologies.

High performance, simplicity of operation and efficiency of installation make RDL the best value in professional Bluetooth interfaces.

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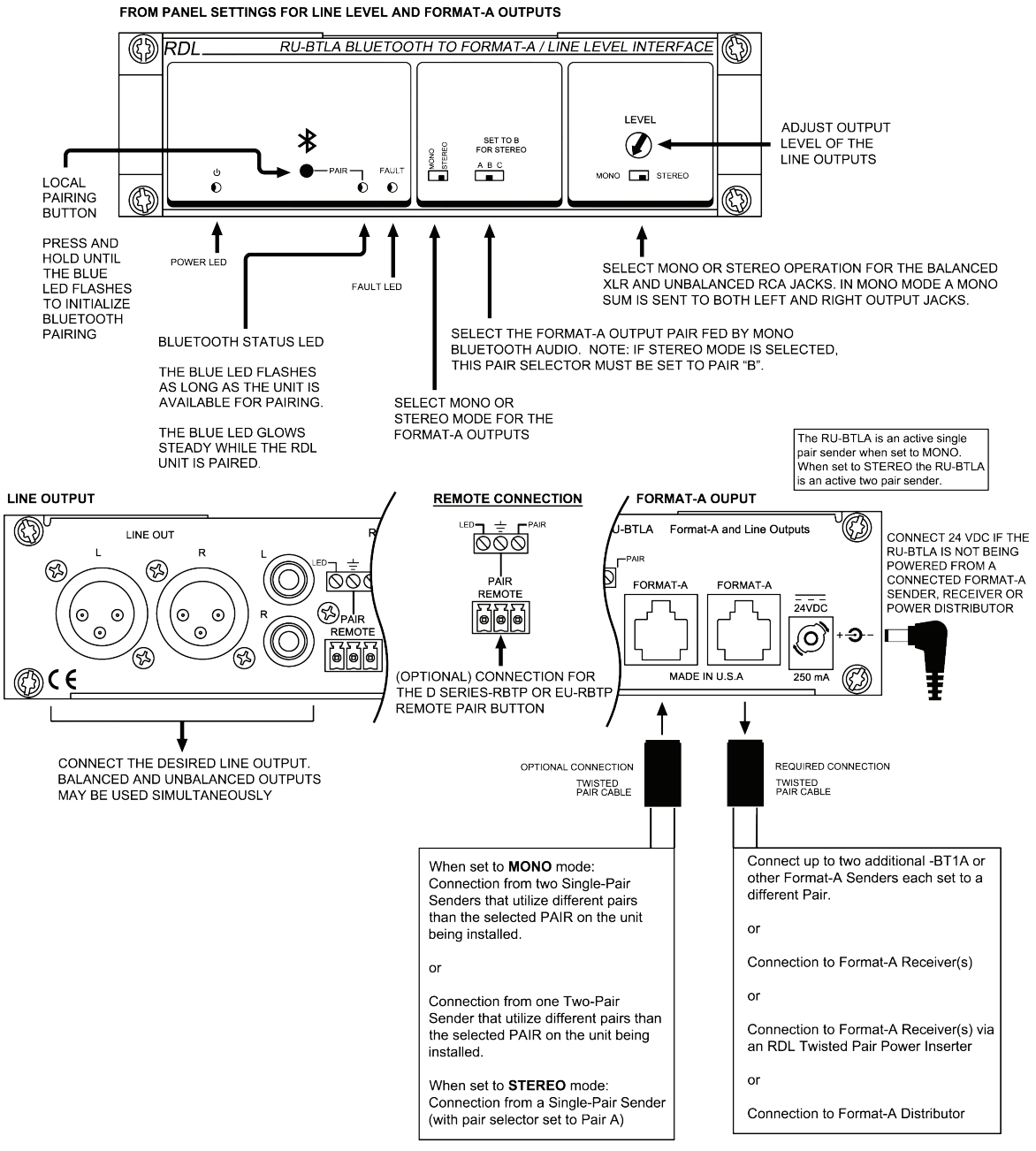

Safety Instructions/Consignes de sécurité/
Instrucciones de seguridad/Sicherheitshinweise:

EU Importer:
Importateur de l'UE:
Importador de la UE:
EU-Importeur:

RDL Europe B.V.
Joan Muyskenweg 124
1114 AN Amsterdam

For Programming Information
See Product Page at RDLNET.COM

Radio Design Labs Technical Support Centers
U.S.A. (800) 933-1780, (928) 778-3554 - Europe [NH Amsterdam-Duivendrecht] (++31) 20-6238 983

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Installation/Operation

CE **Declaration of Conformity available from rdlnet.com.**
Sole EMC specifications provided on product package.
Specifications are subject to change without notice.

Instructions for Bluetooth pairing

Note: If the unit behaves differently from what is described here, it may be configured for one of the optional operating modes. Refer to rdlnet.com for programming instructions and additional information.

These instructions are based on the default RDL unit identification as RU-BTLA. If the RDL unit has been renamed by the installer, substitute the new name for RU-BTLA in the following steps. References to the PAIR button and blue LED apply to the RU-BTLA and to -RBTP Remote Bluetooth Pairing Buttons connected to the RU-BTLA.

PAIRING

1] Press and hold the PAIR button until the blue LED on the RDL unit illuminates, then release.

Note: The blue LED flashes while the unit is available for pairing.

If the blue LED stops flashing before the pairing process is completed, restart these steps.

2] While the blue LED is flashing, locate RU-BTLA on the user device's Bluetooth settings and click PAIR DEVICE, following screen prompts to complete the pairing process.

Note: The blue LED glows steady while the RDL unit is paired.

UN-PAIRING

The RDL unit will unpair automatically 30 seconds after the user device leaves the area. The user device may be manually disconnected by pressing and holding the PAIR button on the RDL unit and/or on connected remote controls for three seconds. The blue LED is off when the unit is no longer paired.

Note: "Leaving the area" refers to the user device being out of range to maintain consistent Bluetooth operation.

RE-PAIRING

1] Press and hold the PAIR button until the blue LED on the RDL unit illuminates, then release.

2] While the blue LED is flashing, locate RU-BTLA under "Previously Connected Devices" on the user device's Bluetooth settings and click RU-BTLA, following screen prompts to complete the re-pairing process.

Note: If the re-pairing fails, click "Forget Device" on the user device and pair the RDL unit as a new device. Upon successful pairing, the user device applications for audio playback through a Bluetooth interface may be used.

TYPICAL PERFORMANCE
Bluetooth® to Line Output Interface Section

Outputs (4):	Balanced: XLR (2); Unbalanced: RCA (2)
Output level (attenuator fully CW):	XLR (2): +4 dBu balanced, nominal; RCA (2): -10 dBV unbalanced, nominal
Output attenuation:	Off to nominal (+4 dBu or -10 dBV) for -20 dBFS source
Output attenuator:	Front panel flush slotted single-turn trimmer
Mode:	Stereo or Mono (balanced and unbalanced outputs)
Mode selector (line outputs):	Recessed slide switch (front panel)
Frequency Response:	20 Hz to 18 kHz (± 1 dB)
THD+N:	< 0.05%
Crosstalk (channel to channel):	< -82 dB (stereo balanced and unbalance outputs)
Noise below -20 dBFS:	< -70 dB (20 Hz to 20 kHz); < -85 dB (20 Hz to 20 kHz, muted)

Bluetooth® to Format-A Output Interface Section

Output:	RJ45
Format-A Input:	RJ45 (Pass-thru)
Format-A Signal Pair(s) Used:	A, B, or C (summed mono mode, front-panel switch-selectable); B and C (stereo mode, pair A pass-through)
Format-A Pair Selector:	Recessed slide switch (front panel)
Output Level:	XLR (2): +4 dBu balanced, nominal; RCA (2): -10 dBV unbalanced, nominal
Mode:	Stereo or Mono
Mode selector (Format-A):	Recessed slide switch (front panel)
Frequency Response:	20 Hz to 18 kHz (± 1 dB)
THD+N:	< 0.05%
Crosstalk (channel to channel):	< -75 dB (1 kHz)
Noise below -20 dBFS:	< -70 dB (20 Hz to 20 kHz); < -85 dB (20 Hz to 20 kHz, muted)

Common

Audio Operating Levels:	-20 dBFS = +4 dBu (balanced) and -10 dBV (unbalanced), nominal
Indicators (3):	Power, Pair and Fault
Power Requirement:	24 Vdc @ 250 mA
Ambient Operating Environment:	0° C to 40° C
Dimensions:	5.74 in. (14.58 cm) W; 1.64 in. (4.17 cm) H; 3.96 in. (10.06 cm) D
Package Type:	Cardboard Box
Package Dimensions:	6.7 x 6.25 x 2.75 in.
Shipping Weight:	1.39 lb
WEEE Weight:	1.12 lb

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