RDL®

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2026 RDL BLUETOOTH PROGRAMMING FOR RU-BTLA & EU-BT1A

RDL Bluetooth® units can be programmed by the installer using Bluetooth enabled smart phones, tablets or computers equipped with a serial terminal program. The following is an example of a Serial Terminal Program for Android devices:
https://play.google.com/store/apps/details?id=de.kai_morich.serial_bluetooth_terminal

Note: RDL is currently unaware of a Bluetooth compatible serial terminal program for Apple® phones and tablets.

As supplied from the factory, RDL Bluetooth units have the following default settings loaded:

Product Name:	RU-BTLA or EU-BT1A (Model Specific)
Pair Mode	0 (OFF)
Pin Code	1234 (Code used to pair to the unit, if required by Pair Mode setting 1)
Pair Timeout	30 Seconds
Long Press Time Out	2 Seconds
Dim Level	Level 8 (Maximum)
Led Time Out	30 Seconds
Disconnect on Pair	1 (ON)
Always Connectable	0 (OFF)

If these values are suited to the installation, no programming is required.

Note: The Product Name is typically changed to help a user identify the correct Bluetooth unit when pairing.

To enter programming mode, complete the following steps:

1. Pair a Bluetooth device with the RDL unit.
   Note: Pairing instructions are provided on the downloadable product data sheet and with the RDL unit.
2. Open the serial terminal program.
3. Connect the serial terminal program to the RDL unit.
4. Enter and send the appropriate SetVar (Set Variable)command for the setting to be changed.
5. After receiving a valid SetVar command, the RDL unit responds with an ACK to acknowledge the variable change.
6. Make any additional desired variable changes using the appropriate SetVar command.
7. Enter and send the SAVEBT command to save the changes.
8. The Bluetooth connection is terminated, and the RDL unit restarts.

While in the programming mode, any of the factory default settings may be changed. This is accomplished through the Serial Terminal Program by typing the Set Varible (SetVar) Syntax followed by a valid entry. Syntax, commmands, values and parameters are case sensative.

SAVE SETTINGS
Syntax SAVEBT
Saves all pending Bluetooth configuration changes to non-volatile memory.
Note: Unsaved configuration changes may be lost if power is removed or the module is restarted before they are written to memory.

HELP
Syntax HELP
Displays the list of available Bluetooth configuration values, variables and commands.
Note: This command is intended as a quick reference while connected through the serial terminal.

BLUETOOTH NAME Default = RU-BTLA
Syntax SetVar(btName=<name>)
Where <name> is an alphanumeric Bluetooth broadcast name containing up to 32 characters.
This changes the Bluetooth device name broadcast during discovery.
Note: Upon saving the new name, the Bluetooth interface restarts and advertises the updated name. If the device was previously paired under a different name, remove ('Forget') the old pairing before reconnecting. Assign a unique descriptive name when multiple RDL Bluetooth products are installed.

PAIR MODE Default =0 (OFF)
Syntax SetVar(pairMode=<0/1>)
Where 0 selects SIMPLE mode and 1 selects CODE mode.
This determines whether Bluetooth pairing requires a PIN.
Note: Changing this setting affects future pairing attempts only. Devices may need to be removed and paired again after the mode changes. CODE mode is recommended where unauthorized pairing should be prevented.

PIN CODE Default = 1234
Syntax SetVar(btPinCode=<4-digit code>)
Where <4-digit code> is a numeric value from 0000 through 9999.
This changes the Bluetooth pairing PIN used when Pair Mode is CODE.
Note: Choose a PIN that can be documented by the installer but is not easily guessed. The PIN is ignored while Pair Mode is SIMPLE.

PAIR TIMEOUT Default = 30
Syntax SetVar(pairTO=<1-90>)
Where <1-90> specifies the pairing timeout in seconds.
This determines how long the unit remains available for pairing.
Note: A shorter timeout limits the discoverable period after pairing mode is entered. Setting this value too short may cause an inability to complete the pairing sequence reliably. 30 seconds is the recommended minimum.

LONG PRESS TIMEOUT Default = 2000 milliseconds (2 seconds)
Syntax SetVar(lpTimeout=<milliseconds>)
Where <milliseconds> specifies the required long-press duration (in additional PAIR time).
This changes the time the PAIR button must be held before a long-press action is recognized.
Note: Increasing this value can reduce accidental activation in public installations.

LED DIM LEVEL Default 8 (Maximum)
Syntax SetVar(ledDIM=<0-8>)
Where 0 is minimum brightness and 8 is maximum brightness.
This sets the idle LED brightness.
Note: LEDs automatically illuminate at full brightness during pairing and programming regardless of the configured idle dim level.

LED TIMEOUT Default = 30
Syntax SetVar(ledTO=<0-120>)
Where <0-120> specifies the LED timeout in seconds.
This determines how long the LEDs remain illuminated after activity.
Note: After the timeout expires, LEDs return to the configured idle dim level or turn off, depending on the dim setting.

DISCONNECT ON PAIR Default = 1 (ON)
Syntax SetVar(discOnPair=<0/1>)
Where <0> specifies pressing "PAIR" does not cause disconnect and <1> specifies ON where pressing "PAIR" does cause disconnect
Sets whether pressing the PAIR button disconnects the currently connected Bluetooth device.
Note: For typical Bluetooth functionality, Disconnect on Pair is left in the default state of ON.

ALWAYS CONNECTABLE Default = 0 (OFF)
Syntax SetVar(alwaysConnectable=<0/1>)
Where <0> specifies the Always Connectable function is OFF and <1> specifies ON
Always connectable means the device continuously permits connection attempts whenever it is not already connected.
Bluetooth Classic: The device remains in page-scan mode.
Bluetooth LE: The device continuously sends connectable advertising packets.
Note: "Always connectable" does not necessarily mean always discoverable; a device may accept connections from previously paired devices without appearing in a general device scan. For typical Bluetooth functionality, Always Connectable is left in the default state of OFF.

To save changes and exit the programming mode:

1. Send the SAVEBT command
2. Unpair the RDL unit from the Bluetooth device

Factory reset (restore factory default values)

The following steps will restore the RDL unit to its factory default settings. This may be required if the Program Code has been changed and its value has been misplaced, thus the current Program Code is not known.

1. Disconnect the RDL Bluetooth unit from its power supply.
2. Press and hold the PAIR button on the front of the unit while reconnecting power.
3. Hold the PAIR button for 5 seconds and then release.
4. The fault LED will come on. Once the fault LED turns off, the blue power light will illuminate. The unit is now ready for use with its default settings or to be reprogrammed.

Disconnect All Paired Devices

The following steps will disconnect all paired devices.

1. Press and hold the pair button for An additional 5 seconds over the current LONG PRESS TIMEOUT setting

   (Default LONG PRESS TIMEOUT = 7 seconds)