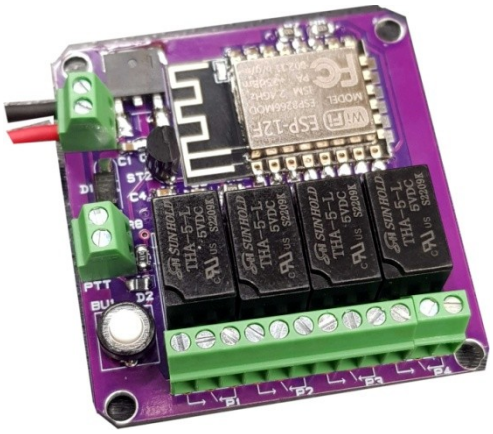
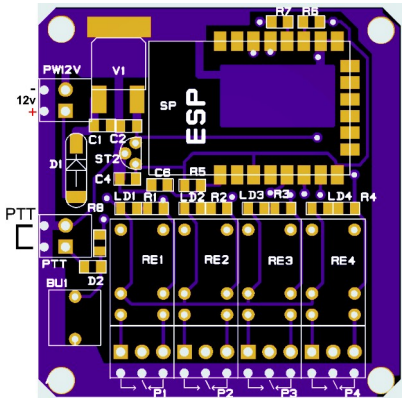
PTT Sequencer V2.0





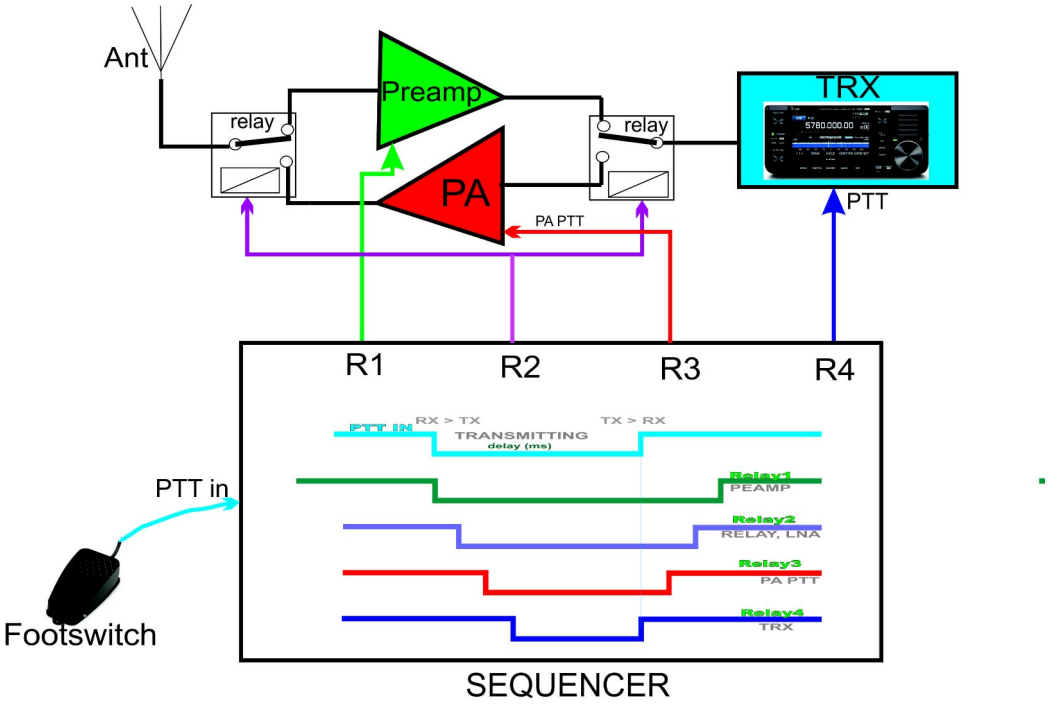
Description

The **PTT Sequencer V2.0** is designed to provide safe sequential switching of RF equipment during transmit (TX) and receive (RX) operation.

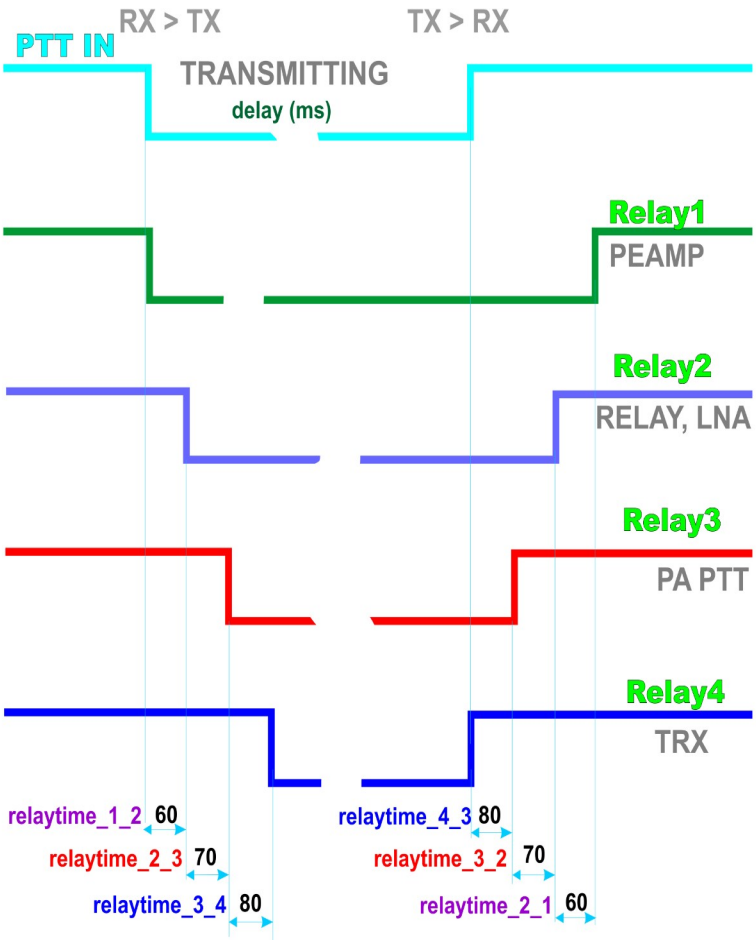
The relay switching delays are fully programmable through a built-in Wi-Fi configuration interface and are stored in non-volatile EEPROM memory.

Typical applications include:

- VHF/UHF/SHF transverter systems
- Mast-mounted preamplifiers
- High-power RF amplifiers
- RF coaxial relay switching
- Multi-band microwave stations



default SEQUENCER TIMING



Configuration Instructions

Entering Configuration Mode

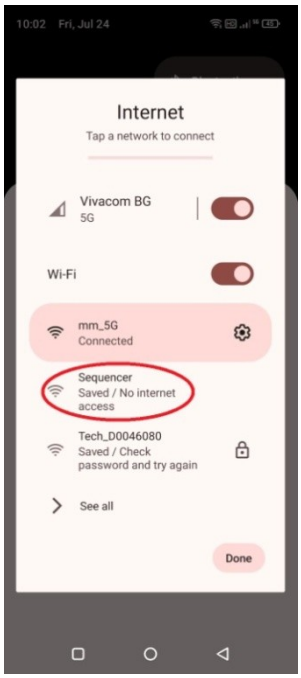
- Turn **OFF** the power to the PTT Sequencer.
- Press and hold the **PTT input** (active LOW).
- Apply power while keeping the PTT pressed.
- Continue holding the PTT for at least **5 seconds**.
- Release the PTT.

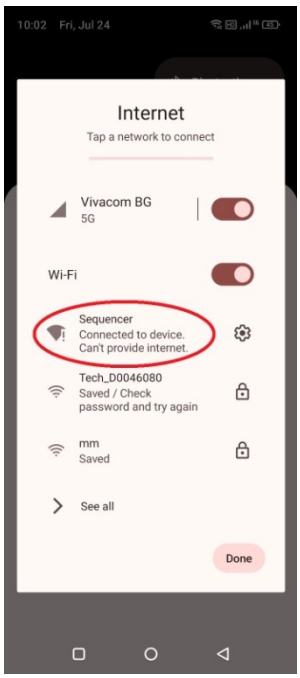
The device will start its Wi-Fi Access Point.

SSID:

Sequencer

No password is required.





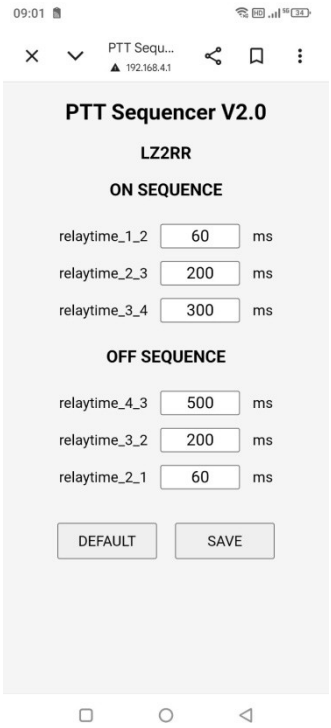
Connecting

- Connect your computer, tablet or smartphone to the Wi-Fi network:

Sequencer

- Open any web browser.
- Enter the following address: http://192.168.4.1

The configuration page will appear.



Adjusting Relay Timing

The configuration page contains two sections:

ON SEQUENCE

- Relay 1 → Relay 2
- Relay 2 → Relay 3
- Relay 3 → Relay 4

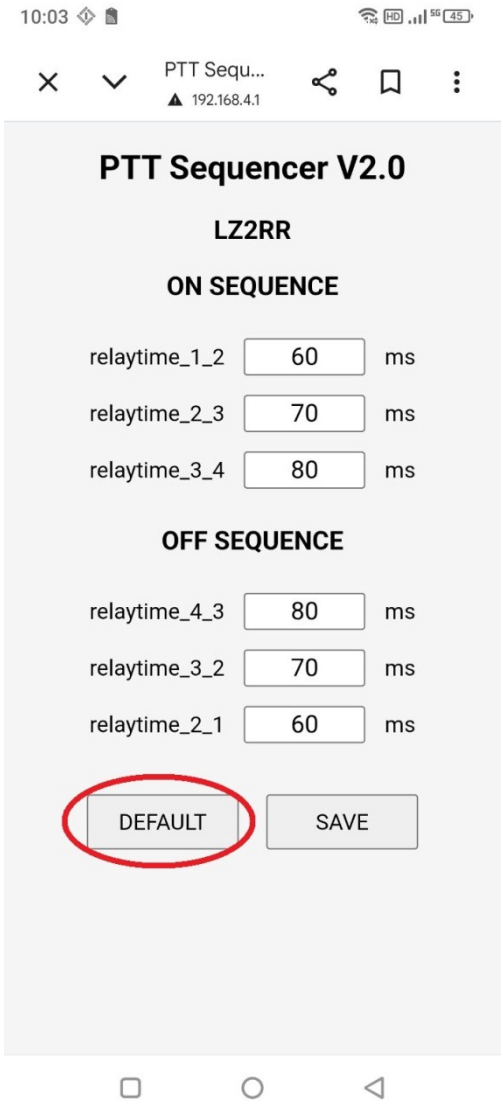
OFF SEQUENCE

- Relay 4 → Relay 3
- Relay 3 → Relay 2
- Relay 2 → Relay 1

All timing values are entered in **milliseconds (ms)**.

Allowed range:

`0 … 999 ms`



DEFAULT Button

Press **DEFAULT** to load the factory timing values:

Parameter	Default
Relay 1 → 2	60 ms
Relay 2 → 3	70 ms
Relay 3 → 4	80 ms
Relay 4 → 3	80 ms
Relay 3 → 2	70 ms
Relay 2 → 1	60 ms

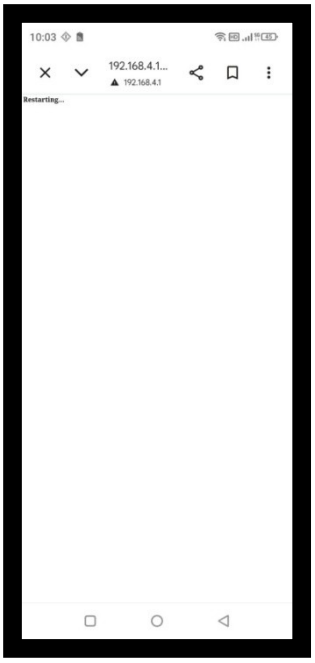
Note:
DEFAULT only loads the factory values into the configuration page.
The values are **not permanently stored** until SAVE is pressed.

SAVE Button

Press **SAVE** to:

Store all timing values into the internal EEPROM.

- Display a confirmation message.
- Automatically switch OFF the Wi-Fi.
- Automatically restart the device.



The new settings become active immediately after restart.

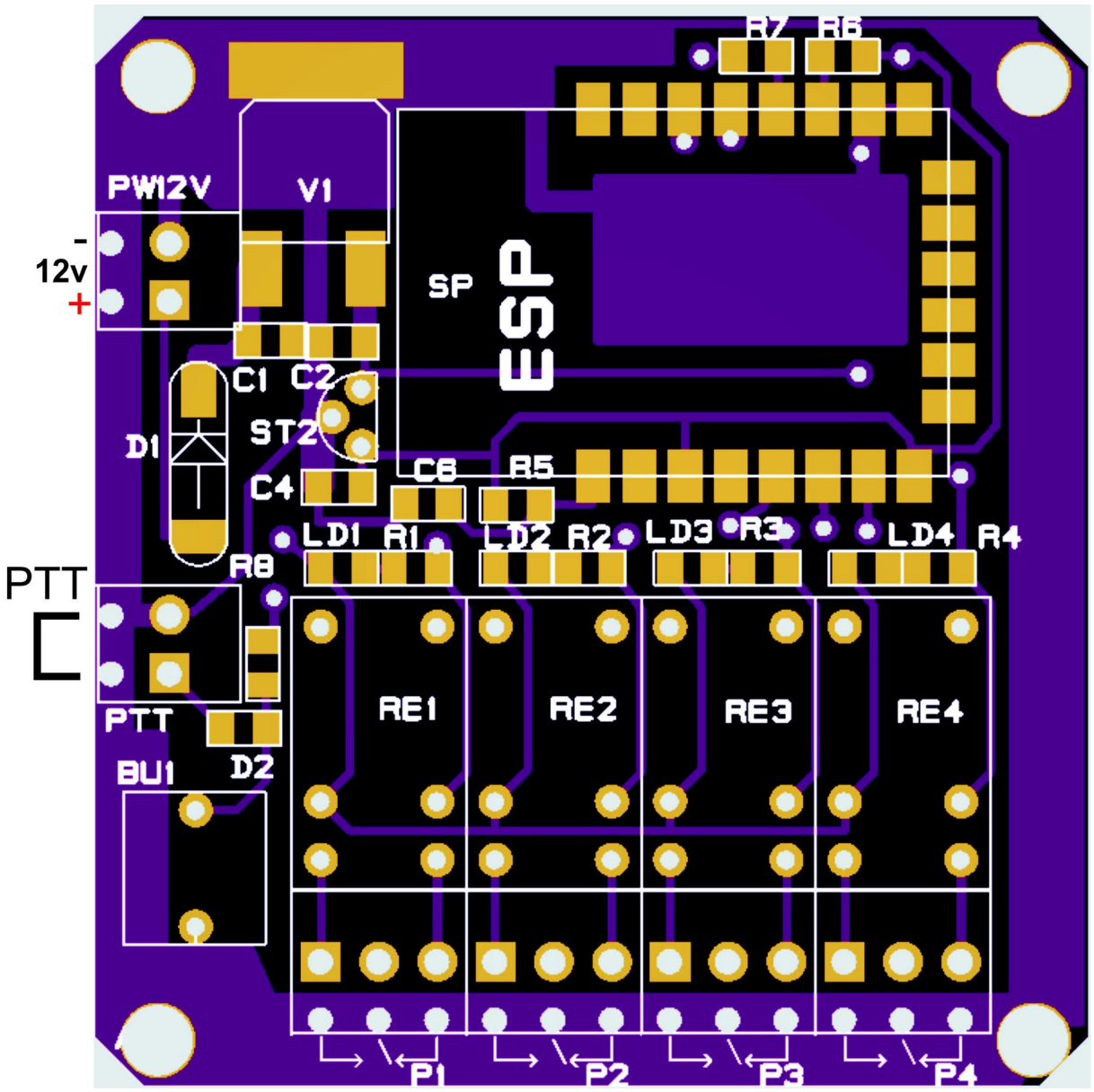
Normal Operation

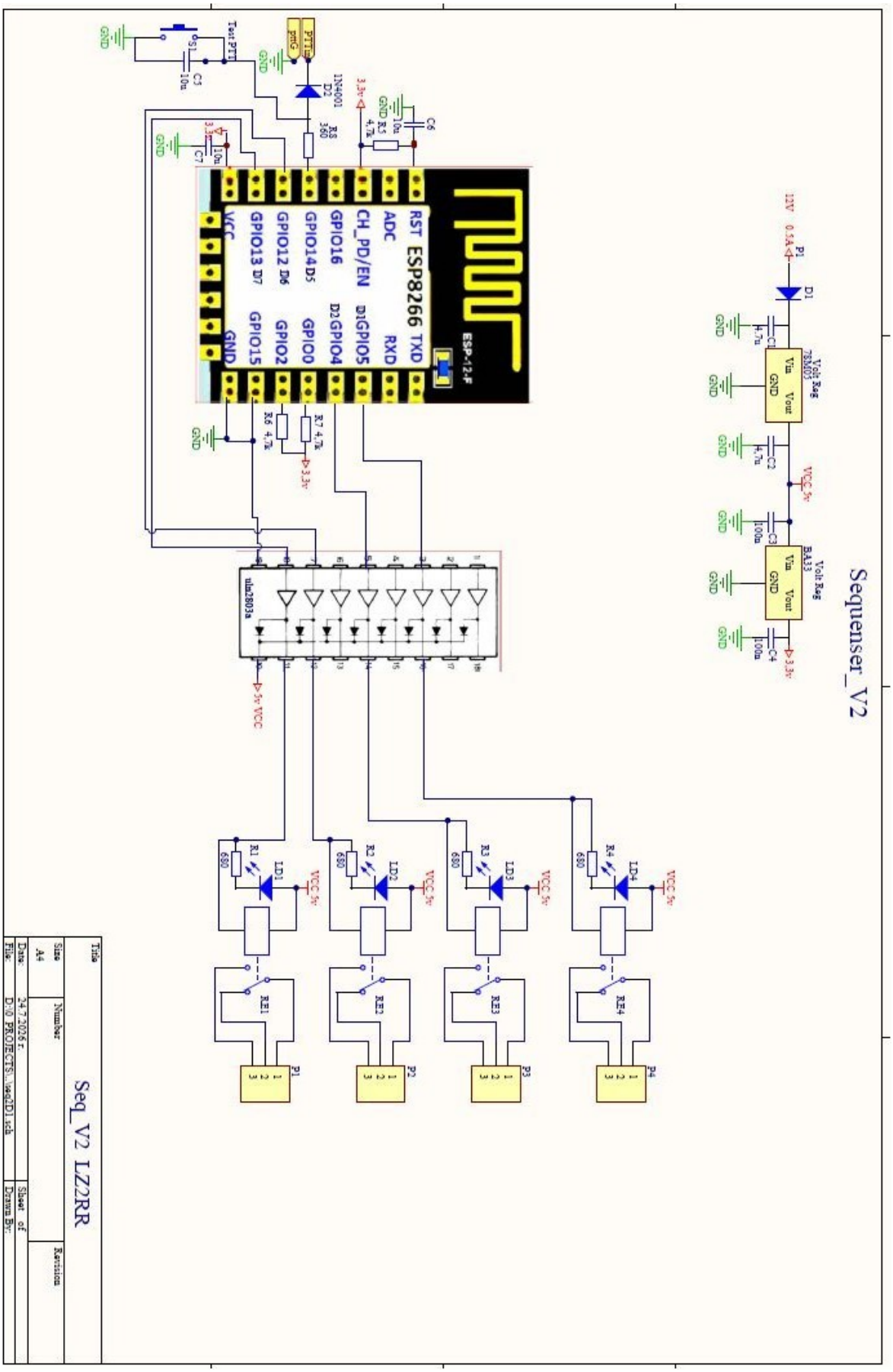
If the PTT input is **not held LOW during power-up**, the sequencer starts directly in **Normal Mode** using the last stored configuration.

Notes

- Configuration Mode is available **only during power-up**.
- After configuration, Wi-Fi is automatically disabled to eliminate any possibility of RF interference.
- All settings are retained in EEPROM and remain stored even if power is removed.

PCB 44x47 mm


R7
R6
PWI2V
V1
-
12v
+
SP
ESP
C1
C2
ST2
D1
C4
C8
R5
LD1
R1
LD2
R2
LD3
R3
LD4
R4
R8
PTT
PTT
D2
BU1
RE1
RE2
RE3
RE4
P1
P2
P3
P4


Sequenser_V2
Seq_V2 LZ2RR
ESP8266
ESP-12-F
ULN2803a
78M05
BA33
LD1
LD2
LD3
LD4
RE1
RE2
RE3
RE4
P1
P2
P3
P4
VCC 5v
3.3v
GND

2026 LZ2RR