

Ritron Model(s):	RQX-111,117,411,417-2	Rev 2 Q-Series Callboxes
	RQX-127,427-XT-2	Rev 2 XT-Series Callboxes
	RQX-127,427-HD-2	Rev 2 HD-Series Callboxes
Current Firmware Revision:	9S1N5403.s19	
Revision Update:	October 7, 2025	

RQX Rev 2 firmware revision history:

1. 9S1N5401 released: 12/19/2023 ECN-5495

Due to availability issues, the Kinetis uP (314C0018/19) is replaced with Infineon CY8C6144LQI uP (314Q0130) on RQX products. This requires an update to firmware 9S1N5401. All RQX models are updated to Rev 2 to indicate this change.

2. 9S1N5402 released: 03/28/2024 ECN-5519

- a. Corrects problem where if Transmit Beep (OK-to-Talk) was enabled, The TX audio path was not switched back to mic input after the beep is generated. Therefore no mic audio nor messages are transmitted.
- b. Change RDA registers 84, 85 and 86 to eliminate Squelch blocking in the presence of a high RF input signal.
 - 84 from 000C to 000A. This reduces ADC gain by 12dB.
 - 85 from 000C to 0002. This reduces ADC gain by 12dB and filter gain by 6dB.
 - 86 from 0014 to 0004 for VHF and UHF NB. This reduces filter gain by 6dB.
 - 86 from 001C to 0004 for VHF and UHF WB. This reduces filter gain by 18dB.

3. 9S1N5403 released: 10/07/2025 ECN-5629

- a. Fixes intermittent high microphone gain where Microphone gain (RDA register 41h.6:0 voice_gain_tx, 00-7F) is not read from EE location 035B, resulting in the RDA radio IC programmed to maximum gain (7F instead of 02). This renders the TX microphone audio noisy and unusable.
 This problem only occurred when the callbox turns off, and is immediately turned back on. The problem persisted until the callbox turns off, and is not turned back on for a period of time up to 30 seconds.
 - b. Remove UHF frequency code 121 as a valid code.
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