

<b>Ritron Model(s):</b>	DMR callbox RQX-417DMR mainboard
<b>Current Firmware Revision:</b>	9S1N4303
<b>Revision Update:</b>	12/15/2021

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**RQX-417DMR mainboard firmware revision history:**

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**9S1N4303**                      **released: 12/15/2021**

9S1N4303 support both MKL27Z128VFT4 and MKL25Z128VFT4 processors. on Rev B PCB, and external oscillator circuitry needs to be populated. The new firmware needs to work with Ver 1.0.8.01 or newer PC programmer.

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**9S1N4302**                      **released: 02/21/2020**

Update radio to support 3.125 kHz channel steps.

If programmed frequency has MSB set then 3.125 kHz channel steps are used, otherwise 6.25 kHz (UHF) and 2.5 kHz (VHF) channel steps are used.

3.125kHz VHF Frequency calculation = Dec2hex (((Frequency / 3.125 kHz) - 30,000) + 32768)

3.125kHz UHF Frequency calculation = Dec2hex (((Frequency / 3.125 kHz) - 125,000) + 32768)

All default radio programming will remain at 6.25kHz (UHF) and 2.5kHz (VHF) so that updated radios can use existing programmer.

Update slope calculations when 3.125 kHz channel steps are used.

Frequency Tables are updated as follows:

UHF Table Frequency 121 is invalid and no longer available

VHF Table Frequency 35 is added at 154.5475 MHz

VHF Table Frequency 36 is added at 152.9000 MHz

RQX-DMR User Manual to be updated to reflect these changes.

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**9S1N4301**                      **released: 12/13/2017**

Initial release.