CHIRP - New Model # 9263

Status:	Resolved	**Priority:**	Normal
Author:	john Terry	**Category:**	
Created:	08/06/2021	**Assignee:**	Jim Unroe
Updated:	12/30/2021	**Due date:**	
Chirp Version:	daily		
Equipment Loan Offered	No		
Subject:	Retevis RB75		

Description

The Retevis RB75 is a GMRS HT. It seems to have come out recently. I bought a 5 pack and a programming cable and have started to play with them. They are not yet supported by CHIRP, and the included software is terrible.

https://www.retevis.com/RB75-Waterproof-Long-Standby-GMRS-Handheld-Two-way-Radios

I've sniffed the magic string from the included software, ".KVOGRAM" (with the first char as 0x02), but haven't determined the memory layout yet.

Attached is a factory default dat file read from the included program and an html page with the serial communication dump between the radio and the included program doing a read and two writes to the radio.

I have explored the existing retevis drivers, I believe this radio is likely close to an existing model.
I may try to code this myself as a weekend project, but if these details make it obvious to someone I'd love to see that.

Associated revisions

Revision 3649:e1dcc19eb8ff - 01/02/2022 10:23 pm - Jim Unroe

[RB75] Add Retevis RB75

This patch adds support for the Retevis RB75 GMRS radio.

addresses #9263

History

#1 - 12/28/2021 07:00 pm - Jim Unroe

How did you create the dump of the serial communications?

Jim KC9HI

#2 - 12/28/2021 07:01 pm - Jim Unroe

- *Status changed from New to In Progress*

- *Assignee set to Jim Unroe*

- *Target version set to chirp-daily*

Sample RB75 provided by Retevis.

Jim KC9HI

#3 - 12/28/2021 08:09 pm - john Terry

Jim Unroe wrote:

> *How did you create the dump of the serial communications?*
>
> *Jim KC9HI*

I used a windows program called "Serial Port Monitor", this is the html output from that. I didn't have a working linux / wine setup at the time. There's a much better chance I can get things working under wine now that I have the right hardware combination. I will try to get that working if needed.

#4 - 12/28/2021 08:11 pm - john Terry

The communication here should include a full read of the memory, and two writes to memory.

#5 - 12/29/2021 06:47 am - Jim Unroe

john Terry wrote:

> *Jim Unroe wrote:*
>
> > *How did you create the dump of the serial communications?*
> >
> > *Jim KC9HI*
>
> *I used a windows program called "Serial Port Monitor", this is the html output from that. I didn't have a working linux / wine setup at the time. There's a much better chance I can get things working under wine now that I have the right hardware combination. I will try to get that working if needed.*

OK. That is what I use here. I just export the "dump" view to a *.txt file. The reason I asked was I am trying to locate something simple-to-use and free that I can tell others to use to capture the transfer from/to their radio like you did.

Jim KC9HI

#6 - 12/30/2021 05:07 am - Jim Unroe
- Status changed from In Progress to Resolved
- % Done changed from 0 to 100

A patch has been submitted. Support should be in the next CHIRP daily build following acceptance.

Jim KC9HI

#7 - 12/30/2021 12:50 pm - john Terry

Jim Unroe wrote:

> A patch has been submitted. Support should be in the next CHIRP daily build following acceptance.
>
> Jim KC9HI

That's amazing! Thanks Jim! I look forward to giving it a spin!

#8 - 12/30/2021 01:01 pm - john Terry

Jim Unroe wrote:

> john Terry wrote:
>
>> Jim Unroe wrote:
>>
>>> How did you create the dump of the serial communications?
>>>
>>> Jim KC9HI
>>
>> I used a windows program called "Serial Port Monitor", this is the html output from that. I didn't have a working linux / wine setup at the time. There's a much better chance I can get things working under wine now that I have the right hardware combination. I will try to get that working if needed.
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> OK. That is what I use here. I just export the "dump" view to a *.txt file. The reason I asked was I am trying to locate something simple-to-use and free that I can tell others to use to capture the transfer from/to their radio like you did.
>
> Jim KC9HI

FWIW, I did try both the wine approach, and the USBPCap approach to no avail. I may have gotten the USB way to work eventually with enough futzing. In this case, the radio software was using some serial API not yet implemented by wine, and raising a NotImplemented System.IO.Ports.SerialPort.set_ReceivedBytesThreshold error. The USBPcap method might've worked for me eventually, but I couldn't seem to get the right capture filter, and when I thought I had it, the file was only 2KB with very little in it when opened in wireshark... I'm not a windows user so this was difficult.

What I wanted to try was running a Windows VM on linux and passing through & sniffing the serial port from linux. I guess maybe next time ;)

I'd love to look at the patch, but I can wait until its in a mainline branch. Just curious, I was staring at the code myself for a while, but couldn't quite get it.

Files

retevisRB75 Default.dat	4.7 kB	08/06/2021		john Terry
RB75 Serial Communication.html	270 kB	08/06/2021		john Terry