



Configure Remoterig RRC1258 COM1 for RT-21 Control

This application note shows you how to use your Remoterig RRC1258 radio control to provide remote communications for an RT-21 rotator. This allows any rotator control program that can run an RT-21 locally, to operate your RT-21 in a remote station application without requiring a computer at the remote station.

Normally, Remoterig uses COM2 for radio control and has an extra serial port available for other uses. COM1 is a convenient way to utilize your Remoterig to add rotator control to your remote operation. If you have a single rotator and no amplifier, or an automatic amplifier, then this is an ideal use of COM1.

If you have multiple RT-21 and/or switching devices to operate as well (remote coax switches, GH Select-8, or other) that can be operated remotely using the flexible GH Everware control system, and want to continue without a computer at the remote station, then you can use COM1 to reach your GH Everware base unit instead. (See App Note – Remoterig to access GH Everware remotely)

1. Configure COM1 at both ends of your RemoteRIG units:

The screenshot shows a web browser window displaying the Microbit RRC-1258 MkII Control interface. The browser address bar shows the URL <http://192.168.2.144/>. The page title is "RRC-1258 MkII: Control [W2FU_Remote_1]". The interface features a sidebar on the left with the Microbit logo and a menu of settings: Info, Status, Wi-Fi scan, Profiles, IP settings, Radio settings, Serial settings, Advanced settings, Dynamic DNS settings, Keyer settings, and IO settings. The "Serial settings" section is expanded, showing the following configuration for COM1:

Setting	Value
COM1 mode	Mode-3, char-timeout
COM1 baudrate	4800
COM1 data bits	8
COM1 stop bits	1
COM1 parity	0 - Off
COM1 rts/cts	No
COM1 terminator (hex)	00
Use USB Com Port as COM1	No

The browser window also shows a search bar with "150%" and a status bar at the bottom.



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2. Connect a straight M-F serial cable between the Remoterig's COM1 at the operating end and your logging computer (Or USB->Serial adapter)
3. Connect a null modem (crosses 2-3) M-M serial cable between the Remoterig's COM1 at the remote station end, and your RT-21.
4. On your logging computer, configure your favorite logging, or other rotator control program, to use RT-21 as if it was connected to the local COM port. If you are using a USB adapter, then make sure you are selecting the correct COM port for that adapter.

Green Heron can provide a cable kit with USB->Serial adapter for this purpose. See the Rotator Accessories section on the website.