

Sharing Internet over Long Range Wireless Serial Connection 433Mhz

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wdaW81CXK9o3gCLcBGAs/s280/Schermata%2B2017-06-18%2Balle%2B10.57.41.png“
width=„280“/></a></div> I needed to connect a Raspberry Pi Zero to a Linux Server hosted at my
house (1km away). I couldn't use WiFi for problems of signal range, for this reason I opted to connect
2 stations with a Wireless Serial Connection by a cheap <a
href=„http://ardupilot.org/copter/docs/common-3dr-radio-advanced-configuration-and-technical-infor
mation.html“>SiK Telemetry Radio V2 433Mhz</a> &#160;(20$).<p>To create a Peer to Peer TCP/IP
connection I used SLIP (Serial Line Internet Protocol).<br/></p><h4> Server-Side:</h4> - Connect a
USB Telemetry Radio, with dmesg we check the serial port name<br/> &#160; $ dmesg | grep now
attached<br/> - Load a SLIP module<br/> &#160; $ sudo modprobe slip<br/> - Install net-tools for
slattach tool<br/> &#160; $ sudo apt install net-tools<br/> - Configure SLIP and attach to a serial
port<br/> &#160; $ sudo slattach -L -s 57600 -p slip /dev/####Serial_Port_Name<br/> - On another
console create a network interface<br/> &#160; &#160;$ sudo ifconfig sl0 192.168.5.1 dstaddr
192.168.5.2<br/> - [OPT] Sharing internet connection, <a
href=„https://help.ubuntu.com/community/Internet/ConnectionSharing“>follow this
link</a>.<br/><h4> On Raspberry Pi Zero:</h4> - Connect a Telemetry Radio on Raspberry Pi
Zero&#160;<a href=„https://it.pinout.xyz/pinout/serial_pi_zero“>Board</a><br/> - Load a SLIP
module<br/> &#160; $ sudo modprobe slip<br/> - Configure SLIP and attach to a serial port<br/>
&#160; $ sudo slattach -L -s 57600 -p slip /dev/ttyAMA0<br/> - On another console create a network
interface<br/> &#160; &#160;$ sudo ifconfig sl0 192.168.5.2 dstaddr 192.168.5.1<br/> - Test TCP/IP
connection<br/> &#160; $ ping 192.168.5.1<br/><h4> Simple test Video with 2 Ubuntu
Machine:</h4> <br/><iframe allowfullscreen=„“ frameborder=„0“ height=„210“
src=„https://www.youtube.com/embed/rR9ixE3_h0A?ecver=1“ width=„280“>[embedded
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<br/><div> <br/></div> <div> <h4> Links:</h4> <a
href=„https://playground.arduino.cc/Code/SerialIP#CurrentVersion“>SerialIP Arduino</a><br/><a
href=„http://ardupilot.org/copter/docs/common-3dr-radio-advanced-configuration-and-technical-infor
mation.html“>SiK Radio &#8212; Advanced Configuration</a></div> <div style=„clear: both;“/>
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