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***Arduino Frequency Display For Kenwood
A friend has a Kenwood TS-520S HF (high frequency) ham radio. He does not have the optional DG-5 frequency display and calibrating the dials between bands is not much fun. He gave me some information about the DG-5 and through some review I believe I can make a***

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substitute for the DG-5 using an Arduino, LCD Shield and hand full of chips.

Arduino Frequency Display For Kenwood TS-520S HF Ham Radio ...

This is PART 2 (B) of the project "Arduino Frequency Display For a Kenwood TS-520S HF Ham Radio". This part covers small signal amplification of a 0.2 volt peak-to-peak 20 MHz signal into Schmitt ...

Kenwood DG5 Emulator | KV6O

This is PART 5 of the project "Arduino Frequency Display For a Kenwood TS-520S HF

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Ham Radio". Steve Leander from www.kv6o.com picked up where I left off in part 4 and completed the project. He designed a complete DG5 emulator Arduino shield starting from the prototype circuit and adding 5v power regulation and support of a LCD display.

DG5/TS_520_DG5_LCD_v2_0_1.ino at master - GitHub

This is (PART 2A & 2B) of the project "Arduino Frequency Display For a Kenwood TS-520S HF Ham Radio". This part covers small signal amplification of a 0.2 volt peak-to-peak 5.5 MHz signal into Schmitt triggered NAND gate for

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cleanup before being cleanly counted by the Arduino.

Arduino As An Inexpensive Ham Radio Frequency Counter ...

The Kenwood DG-5 was an optional digital display for the TS-520/820, and on the used market they go for more than I paid for the radio! He was using the Arduino platform, something I have been using for a few years here.

Arduino Frequency Display for Kenwood TS-520S HF ham radio ...

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This is PART 3 of the project "Arduino Frequency Display For a Kenwood TS-520S HF Ham Radio". This part covers 0.9 volt 38 MHz signal amplified into Schmitt triggered NAND gate for cleanup before going to a divide by 8 ripple counter chip then finally being cleanly counted by the Arduino using multiply by 8 math function to restore counts to 38 MHz.

***Arduino Frequency Display for Kenwood TS-520S HF ham radio PART 2 B
Published on Mar 30, 2014 This is PART 4a
(there will be a 4b soon) of the project "Arduino Frequency Display For a Kenwood TS-520S HF***

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Ham Radio". This part covers switching to a new front end...

Arduino Frequency Display For Kenwood TS ... - ToddFun.com

Kenwood DG5 digital display emulator, V2.0.2 - LCD version: 4/8/17 - Version 2.0.2 - Stability Enhancement added. Tests the HFO and BFO to see if they have moved more than 500Hz and 100Hz, respectively.

ToddFun.com » Ham Radio

My TS-520 now talks to my computer! After getting all inspired by a series of posts that

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Todd Harrison did on his blog, ToddFun.com I built a DG-5 emulator with a twist. Instead of displaying the calculated frequency on a LED display like the DG-5, I am emulating a couple of commands command (ID and IF) that DXLab's commander uses when it's interrogating a TS-790.

Arduino Frequency Display For Kenwood TS ... - ToddFun.com

Kenwood did build an add-on digital display for the TS-520S called the "DG-5 Digital Display". Kenwood claims that it had an accuracy to 100 Hz. It required multiple RF connections to the

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back of the TS-520S. The TS-520S also provided 13.8 Volts DC power to the DG-5 unit was well.

Arduino Frequency Display for Kenwood TS ... - ToddFun.com

This is PART 5 of the project "Arduino Frequency Display For a Kenwood TS-520S HF Ham Radio". Steve Leander from www.kv6o.com picked up where I left off in part 4 and completed the project. He designed a complete DG5 emulator Arduino shield starting from the prototype circuit and adding 5v power regulation and support of a LCD display.

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***A Kenwood DG-5 emulated on Arduino | KV6O
The Kenwood DG5 Emulator described here is an Arduino based “digital dial” display for the Kenwood TS-520S and possibly the TS-820 - I don't have one to test with. The Kenwood DG5 was an accessory sold by Kenwood that added a digital LED display to the TS-520S.***

Arduino Frequency Display For Kenwood TS ... - ToddFun.com

Kenwood DG5 digital display emulator, V2.0.1 - LCD version: Updates made April 2017 by Stephen Leander, KV6O - ported updated code back to LCD version from LED - added

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correction factor (see variable "cf" in the "Frequency measurement variables" section - added smoothing/averaging to reduce display jitter - code cleaned up and better documented

Add a digital display to your Kenwood TS-520S Transceiver ...

The friend's radio didn't come with a frequency display, and buying the add-on would cost more than the radio did. So [Todd] has set out to build an Arduino frequency counter for a Kenwood TS ...

Arduino Frequency Display for Kenwood

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TS-520S HF ham radio PART 4a

This is PART 4b of the project “Arduino Frequency Display For a Kenwood TS-520S HF Ham Radio”. This part covers testing the circuit and frequency counter software when connected to the Kenwood radio but still on a bread board.

Kenwood TS-520 DIY KIT LCD Digital Frequency Counter ...

Turn your Arduino into a powerful radio transceiver! Now in stock and shipping! HamShield lets your Arduino talk to far away people and things using powerful amateur radio

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bands! Best of all, the hardware and software is open source! Launched on Kickstarter and available today! Voice and packet radio data are supported

DG5/TS_520_DG5_LCD_v2_0_2.ino at master - GitHub

Frequency Range: 1MHz to 35MHz. Frequency Resolution 1Hz or 10Hz. Offset for CW, USB or LSB, for the correct frequency information. Programmed Frequency Offset for all 7 + WWV bands for the Kenwood TS-520.

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[14c834962962829c20f0aa1958e1f515](#)