Thank you for purchasing a TAPR product. The associated software and directions can be obtained from the web. Here is some basic information and a link to the documentation:

## The **TASS-R Relay and TASS Shield**

TThe TASS is a relay switching system and associated controller that are building blocks for automatic analog switches of varying complexity.

The TASS system consists of three components:

1. The TASS-R relay board, which has 8 BNC connectors as well as solder pads for external connections. It is controlled through a 10-conductor ribbon cable.
2. The TASS-SHIELD daughterboard for the Arduino Mega 2560 (not supplied). One Arduino/TASS-SHIELD can control up to four TASS-R boards.
3. The TASS software, which is open source and written in the Arduino IDE.

The TASS-R board handles signals from DC through 150 MHz (VHF performance varies based on configuration; see details below). It will handle 10W of power continuously; damage may occur with higher power levels. It requires 12V at from 0 to about 135mA, depending on how many relays are energized.

The TASS-R board is 2.2 inches high and 4.4 inches wide. It will mount into a 2U rack panel and is secured by the threaded BNC connectors. The connectors are spaced 1.0 inches horizontally and 1.6 inches vertically.

The TASS-SHIELD board is 2.10 inches high and 4.05 inches wide. It mounts directly to the Arduino Mega 2560 controller. It has headers for four 10-pin ribbon cables, one to each TASS-R board. TAPR does not supply the Arduino; you can obtain it from many sources just as cheaply as we can.

Manual: <https://web.tapr.org/~n8ur/TASS/TASS_Manual.pdf>

Contact us at [**contact@tapr.org**](mailto:contact@tapr.org) for assistance, help or troubleshooting.

Best Regards, TAPR