

Kenwood TS-50 HF Transceiver IF-10D module for Computer Interface

This is the entire circuit of the (expensive and now-discontinued) Kenwood IF-10D interface for the TS-50 transceiver. It inverts TTL-level data from the radio's digital control board to the "half-RS232" output seen at the 5-pin DIN computer-control connector of other Kenwood transceivers. The four inverters are 4/6ths of a 74LS04 TTL hex inverter.

The device is packaged in a metal box with the same 5-pin DIN connector seen on the rear panels of larger Kenwood radios. A 7" pigtail with a 6-contact high-density miniature connector mates with the radio motherboard through a hole on the underside of the TS50.

Although Kenwood recommends that you then use their IF-232 interface to convert from 0V/+5 V to true -12V/+12V RS-232 levels, most PC serial ports will work with this interface as-is. The main advantage of the IF-232 is ground isolation -- their interface incorporates opto-isolators.

