

1. Interface

The JUNOP AFU - Interfaces considerably expands the possibilities of many amateur radio transceivers. With appropriate software, memory channels can be managed comfortably, new features can be activated or transceivers can be controlled remotely.

A list of transceivers the AFU-Interfaces can be delivered for is to be found in the file [transceiver.pdf](#)

The interface is built up with SMD components and is housed in a D-SUB box. The interface is to be connected by a 9 pin cable with the PC's serial port on one side and with an appropriate plug with the radio on the other. The interface will be delivered ready for use. If the mounting situation of the PC's serial port connector is ok, the interface can be connected directly to the PC.

Power is supplied by a serial port, i.e. no further external power supply is needed.

Beside specific interfaces supplied with a fixed connection cable and plug that fit for certain device types or device families, there is an universal interface (AFU-Interface 1000) with an USB socket that is connected with an appropriate cable and socket to the transceiver.

So you can control e.g. a FT-817 and simply by changing the cable program a VX-5. Another advantage is that you don't have to buy a new interface when purchasing a new transceiver.

For the handhelds YAESU VX-1R, VX-5R, FT-50, ICOM IC-Q7 and IC-R2 the following options are available:

- * Packet- Radio/ APRS- Operation (1k2 Bd; with appropriate TNC/Modem and Software)
- * all modes generated or processed by a soundcard, e.g. SSTV, RTTY, FAX, Hell, PSK31
- * Connecting microphones and speakers for fixed/ mobile operation, expensive special microphones are required no longer

2. Software

The programs supplied on floppy disk are solely free or shareware respectively and are thought as demonstration of the possibilities of the AFU-Interface. JUNOP S+R cannot supply original software for free for obvious reasons.

Different categories of software have to be distinguished in principle:

At first there is pure memory management software, which is used mainly for handhelds, e.g. VX-5, IC-Q7, FT-50 etc. Typing in up to 500 memory channels with all parameters such as frequency, shift, CTCSS tones, labels etc. can be avoided. Example: EVE V1.70 für YAESU VX-5R

Then there is software for the remote control of transceivers, mostly with additional memory management. On the screen you can see a more or less original skin of the transceiver and you can operate the rig via mouse and keyboard. The advantage is that the software can be controlled much easier than the transceiver with its small multi function keys. Example: FT-817 Commander

Furthermore there is software with integrated transceiver control, e.g. logbook programs (automatic insertion of frequency and mode), contest software, satellite tracking software (taking doppler effect into account, synchronization of transmitter and receiver), mailbox software (automatic scanning of different frequencies on shortwave), Packet-Radio Terminal, e.g. connection a DX-Cluster - clicking on a message set the transceiver to the displayed frequency or multi-mode software Examples: RCKRTTY, Swisslog, YPLog, TRXManager, MixW2.

Depending on the type of transceiver, there are different packages of freeware, shareware or licenced software.

On the floppy disk supplied, there is a small selection for some rigs. Good sources for a search for appropriate software are amateur radio software collections on CD-ROM. e.g. HAM-RADIO or the CD of the FUNK magazine.

Certainly you can find software in the internet, e.g. on

<http://www.geol.com/vx5> : a lot of information about VX-1/VX-5...
<http://www.dl4cu.de> : programming software for VX-1R
<http://www.digital-laboratory.de/> : programming software for IC-Q7, IC-R2... very large link collection also for other rigs
<ftp://ftp.funet.fi/> in the directory pub/ham you can find a lot of ham software

3. Copyright

Copyright for the delivered software is held by the authors. No charge for delivery will be made by JUNOP S+R. If it is no freeware, the software has to be registered with the authors. Please refer to the attached files for details.

The JUNOP- Interface is copyright by JUNOP S+R.

4. Limitation of Liability

Junop S+R is not liable for damages caused by the use of the delivered software and does not guarantee that programming is possible in all cases.

5. Warranty

Warranty covers the delivered interface and the confection of the cables, only. Warranty expires if the interface is opened or the delivered cables are modified.

6. Service

Junop S+R offers service if there are problems with the interface. This merely covers the interface itself and the cables delivered. If you have problems with the software please contact the respective authors.

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