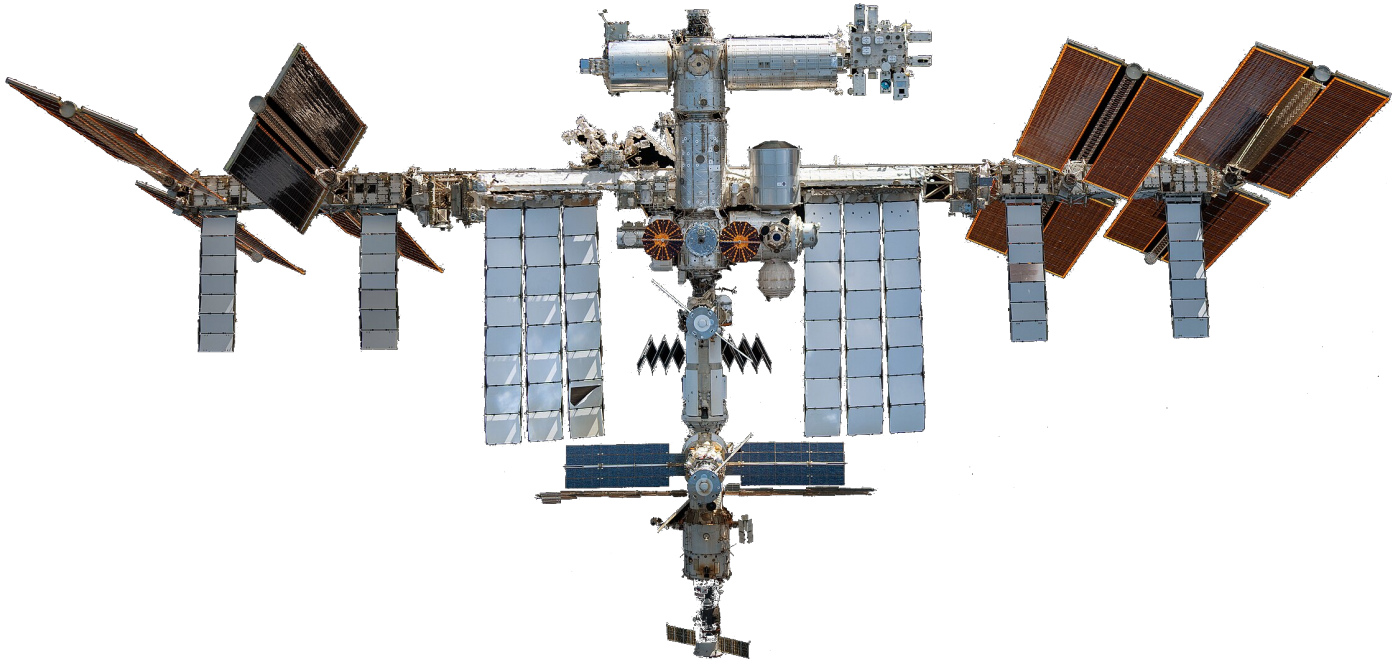
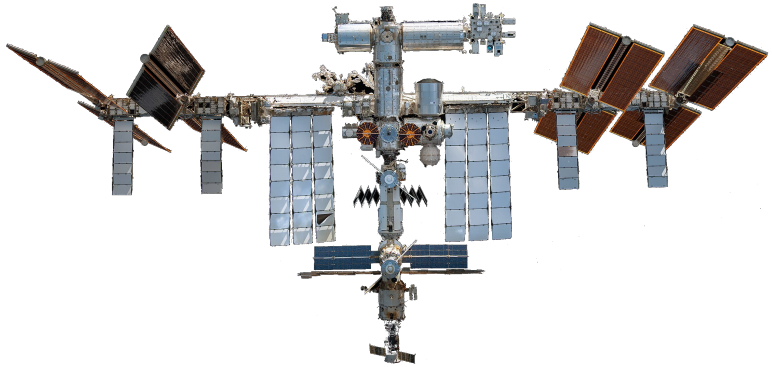
How to work Amateur Satellite (ISS)



The ISS has a Crossband Repeater onboard!!



Uplink: 145.990 (PL 67 Hz)
Downlink: 437.800 MHz

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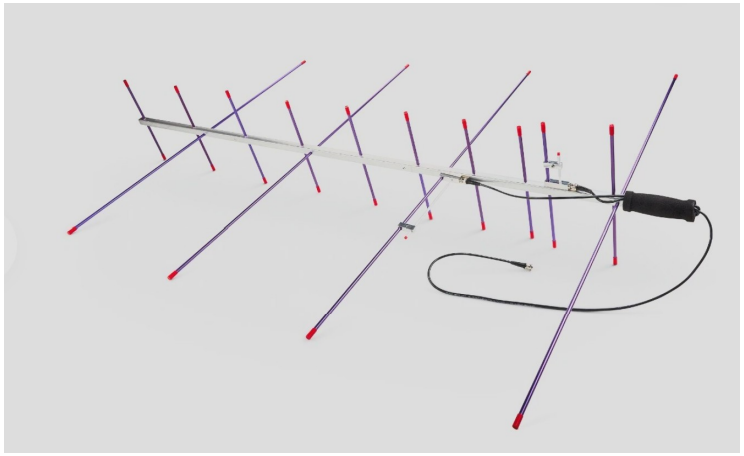
“Some Ham” 1600 kms away

1.) Sometimes special antennas and duplexers are used.



ARROW II 2m /70cm yagi

2.) However, success can be achieved using just a regular Dual Band antenna.

1.) Very quick QSOs encouraged. Callsign, gridsquare.

2.) Passes can last up to 12 minutes

3.) Satellite hams often use two radios. They listen to their own transmission on second radio. Also, true crossband radios and a VHF/UHF duplexer are used.

4.) Very serious hams often run many element dual side by side antennas and have Azimuth and Elevation rotators link to software to control the rotators.

5.) The very easiest satellite operation is the digipeater on the ISS. 145.825 MHz Uplink / Downlink. Program: UISS (UISS)

SOFTWARE TNC: “DireWolf”:
https://github.com/wb2osz/direwolf/releases/download/1.8.1/direwolf-1.8.1-a231971_x86_64.zip

Various softwares:

APRIS: http://aprsisce.wikidot.com/

Xastir: http://xastir.org/index.php/Main_Page

YAAC: https://www.ka2ddo.org/ka2ddo/YAAC.html

PinPoint APRS: http://www.pinpointaprs.com/

UISS: https://www.qsl.net/on6mu/uiss.htm

WinLink: http://www.winlink.org/RMSExpress