

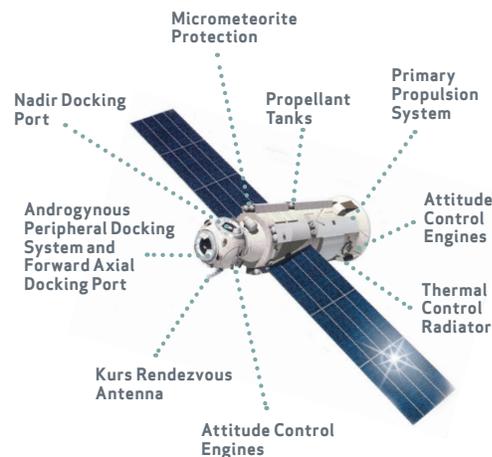
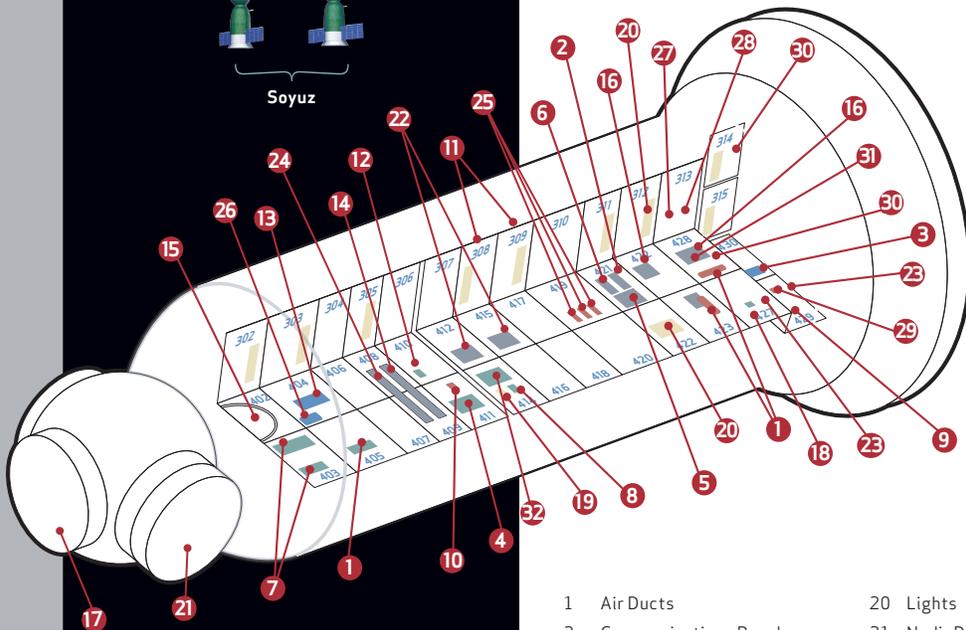
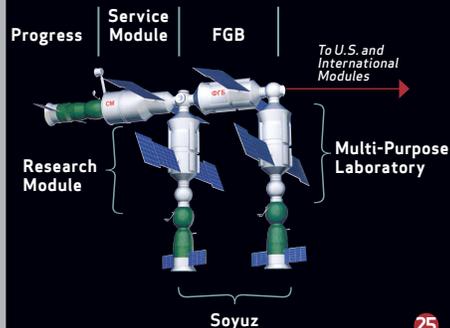


Functional Cargo Block (FCB)

Zarya (Sunrise) and Russian Research Modules

NASA/Khrunichev Production Center

The FCB was the first element of the International Space Station, built in Russia under a U.S. contract. During the early stages of ISS assembly, the FCB was self-contained, providing power, communications, and attitude control functions. The FCB module is now used primarily for storage and propulsion. The FCB was based on the modules of Mir. The Russian Multipurpose Modules planned for the ISS will be based on the FCB-2, a spare developed as a backup to the FCB. The Russian Research Module may be based on the FCB design.



Length	12.99 m (42.6 ft)
Maximum diameter	4.1 m (13.5 ft)
Mass	24,968 kg (55,045 lb)
Pressurized volume	71.5 m ³ (2,525 ft ³)
Solar array span	24.4 m (80 ft)
Array surface area	28 m ² (301 ft ²)
Power supply (avg.)	3 kW
Propellant mass	3,800 kg (8,377 lb)
Launch date	Nov. 20, 1998, on a Proton rocket

- 1 Air Ducts
- 2 Communications Panel
- 3 Caution and Warning Systems Panel
- 4 Contaminant Filters
- 5 Contingency Transfer (Water) Container Bag
- 6 Contingency Transfer (Water) Container Connections
- 7 Dust Collectors
- 8 Electrical Outlet
- 9 Flex Airduct Container
- 10 Fuse
- 11 Fuse Panels (behind close-outs)
- 12 Gas Analyzer
- 13 Gas Mask
- 14 Handrail
- 15 Hatch Protection
- 16 Instrument Containers
- 17 Docking Port to PMA
- 18 Laptop Outlets
- 19 Lighting Panel
- 20 Lights
- 21 Nadir Docking Port
- 22 Onboard Documentation
- 23 Onboard Network Receptacle Outlets
- 24 Pole and Hook
- 25 Portable Fans
- 26 Removable Fire Extinguisher
- 27 Power Outlet
- 28 Pressurized Valve Unit
- 29 Caution and Warning Panel
- 30 Smoke Detector
- 31 TV Outlet
- 32 Wipes/Filters

