**Space Avionics**

**Computers and Controllers**

- Enhanced Space Station Multiplexer / Demultiplexer (ESSMDM) with EPIC
  Qty = 9  7 - LAB, 2 - S0
- Enhanced Space Station Multiplexer / Demultiplexer (ESSMDM)
  Qty = 6  4 - LAB, 2 - N3
- Space Station Multiplexer / Demultiplexer (SSMDM) - 4
  Qty = 18  2 - P6, 2 - P4, 2 - P3, 2 - P1, 2 - S6, 2 - S4, 2 - S3, 2 - S1, 2 - FGB
- Space Station Multiplexer / Demultiplexer (SSMDM) - 10
  Qty = 7  2 - N1/PMA, 2 - S0, 1 - P2, 1 - S1, 1 - PMM
- Space Station Multiplexer / Demultiplexer (SSMDM) - 16
  Qty = 8  3 - LAB, 1 - AL, 2 - N2, 2 - N3

**Space Avionics**

**Onboard Data Networks**

- ISL Edge Router
  Qty = 2  1 - LAB, 1 - N1

**Displays and Controls**

- Multifunction Display Unit (MDU)
  Qty = 2  2 - JEM
- Hand Controllers
  Qty = 2  1 - LAB, 1 - N3

**Space Navigation**

- Space Integrated GPS/INS (SIGI)
  Qty = 2  2 - LAB
- Rate Gyro Assembly
  Qty = 2  2 - S0

**Mechanisms - Power and Data Transfer**

- Power Data Transfer Assembly (PDTA)
  Qty = 2  1 - P1, 1 - S1
- Bearing Assembly Transfer Structure (BAXS)
  Qty = 2  1 - P1, 1 - S1
- Utility Transfer Assembly (UTA)
  Qty = 2  1 - P3, 1 - S3
- Beta Gimbal Roll Ring Subsystem (BGRRS)
  Qty = 8  2 - P6, 2 - P4, 2 - S4, 2 - S6

**Mechanisms - Antenna Gimbals**

- Assembly / Contingency Subsystem (ACS) Gimbal
  Qty = 2  1 - P1, 1 - S1
- Space to Ground Subsystem (SGS) Gimbal
  Qty = 1  1 - Z1

**Berthing / Docking**

- Hook EMA — Qty = 2
- Plug-Umbilical EMA — Qty = 1
- Receptacle-Umbilical EMA — Qty = 1
- Separation EMA — Qty = 3
- Common Berthing Mechanism (CBM) — Qty = 17
- Gearhead — Qty = 12

**Internal Thermal Control System (ITCS)**

- Three Way Mix Valve (TWMV) — Qty = 18
- System Flow Control Assembly (SFCA) — Qty = 12
- Loop Crossover Assembly (LCA) — Qty = 6
- Pump Package Assembly (PPA) — Qty = 16
- Ammonia Tank and Accumulator — Qty = 27
- Rack Flow Control Assembly (RFCA) — Qty = 53
- Manual Flow Control Valve (MFCV) — Qty = 72
- 2 Port Shut-off — Qty = 8
- Surface Temperature Sensor — Qty = 87
- Coldplates and Heat Exchanges — Qty = 310

**Space Environmental Control**

- Carbon Dioxide Removal Assembly (CDRA) — Qty = 2
- Pressure Control Panel — Qty = 6
- ECLSS Air Valves
  - Oxygen Isolation Valve — Qty = 8
  - Nitrogen Isolation Valve — Qty = 19
  - Vent & Relief Valve — Qty = 8
  - Manual Pressure Equalization Valve — Qty = 17
  - Airlock Manual Pressure Equalization Valve — Qty = 2
  - Intermodule Ventilation Valve (IMV) — Qty = 36

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