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| Abbreviation | Expansion |
| 3DES | Triple Data Encryption Standard |
| AAA | Air Avionics Assembly |
| AC | Alternating Current |
| ACBM | Active Common Berthing Mechanism |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| AE | Approach Ellipsoid |
| AES | Advanced Encryption Standard |
| AI | Approach Initiation |
| ALARA | As Low As Reasonably Achievable |
| AM | Axiom Module |
| ANSI | American National Standards Institute |
| AOS | Acquisition of Signal |
| API | Application Programming Interface |
| ATK | Alliant Techsystems |
| ATU | Audio Terminal Units |
| BEI | Biological Exposure Indices |
| BER | Bit Error Rate |
| C&W | Caution and Warning |
| C2V2 | Common Communications for Visiting Vehicles |
| CBCS | Centerline Berthing Camera System |
| CBM | Common Berthing Mechanism |
| CG | Center of Gravity |
| CMG | Control Moment Gyro |
| COAS | Crew Optical Alignment Sight |
| COMSEC | Communications Security |
| COTS | Commercial Orbital Transportation Services |
| CPU | Central Processing Unit |
| DAC1 | Design Analysis Cycle 1 |
| DC | Direct Current |
| DCS | Decompression Sickness |
| DDCU | DC-to-DC Converter Unit |
| DRM | Design Reference Mission |
| ECG | Electrocardiogram |
| ECLSS | Environmental Control and Life Support System |
| EEE | Electrical, Electronic, and Electromechanical |
| EMI | Electromagnetic Interference |
| EMU | Extravehicular Mobility Unit |
| EOL | End of Life |
| EPCE | Electrical Power Consuming Equipment |
| ESA | European Space Agency |
| ESD | Electrostatic Discharge |
| EVA | Extravehicular Activity |
| FIPS | Federal Information Processing Standards |
| FM | Frequency Modulation |
| FRGF | Flight-Releasable Grapple Fixture |
| FSE | Flight Support Equipment |
| GCR | Galactic Cosmic Ray |
| GF | Grapple Fixture |
| GFE | Government Furnished Equipment |
| GHz | Gigahertz |
| GN&C | Guidance Navigation and Control |
| GNC | Guidance Navigation and Control |
| GPS | Global Positioning System |
| H2O | Water |
| HIDH | Human Integration Design Handbook |
| Hz-m2 | Hertz-Meters-Squared |
| ICD | Interface Control Document |
| IDA | International Docking Adapter |
| IEC | International Electrotechnical Commission |
| IEEE | Institute of Electrical and Electronics Engineers |
| IMV | Intermodule Ventilation |
| INT | Internal |
| IP | Internet Protocol |
| IRD | Interface Requirements Document |
| ISO | International Standards Organization |
| ISPR | ISS Standard Payload Rack |
| ISS | International Space Station |
| ITCS | Internal Thermal Control System |
| IVA | Intravehicular Activity |
| IoT | Internet of Things |
| JEM-EF | Japanese Experiment Module Exposed Facility |
| JSC | Johnson Space Center |
| JSL | Joint Station LAN |
| KOS | Keep-Out Sphere |
| LAN | Local Area Network |
| LB | Local Bus |
| LEE | Latching End Effector |
| LOC | Loss of Crew |
| LOM | Loss of Mission |
| LOS | Loss of Signal |
| LPCM | Linear Pulse Code Modulation |
| LSi | Linear Shift Invariant |
| LTL | Low Temperature Loop |
| LTi | Linear Time Invariant |
| LV | Launch Vehicle |
| LVLH | Local Vertical Local Horizontal |
| LiOH | Lithium Hydroxide |
| MBS | Mobile Base System |
| MBSU | Main Bus Switching Unit |
| MCA | Major Constituent Analyzer |
| MCC | Mission Control Center |
| MCC-H | MCC-Houston |
| MDM | Multiplexer/Demultiplexer |
| MDP | Maximum Design Pressure |
| MEM | Meteoroid Engineering Model |
| MHz | Megahertz |
| MIL-STD | Defense Standard |
| MLE | Mid-deck Locker Equivalent |
| MM | Micro-Meteoroid |
| MMOD | Micro-Meteoroid and Orbital Debris |
| MSS | Mobile Servicing System |
| MTL | Medium Temperature Loop |
| MUA | Materials Usage Agreement |
| NASA | National Aeronautics and Space Administration |
| NC | Noise Criterion |
| NDS | NASA Docking System |
| NIST | National Institute of Standards and Technology |
| NPDWR | National Primary Drinking Water Regulations |
| NSA | National Security Agency |
| NSPARS | Nonstandard Part Approval Request |
| OD | Orbital Debris |
| OLR | Outgoing Long Wave Radiation |
| ORB | Orbital |
| ORDEM | Orbital Debris Engineering Model |
| ORU | Orbital Replacement Unit |
| OSHA | Occupational Safety & Health Administration |
| PBA | Portable Breathing Apparatus |
| PCBM | Passive Common Berthing Mechanism |
| PCM | Pulse Code Modulation |
| PCS | Portable Computer System |
| PDGF | Power Data Grapple Fixture |
| PEL | Permissible Exposure Limits |
| PFD | Power Flux Density |
| PLR | Packet Loss Rate |
| PMA | Pressurized Mating Adapter |
| PMM | Permanent Multipurpose Module |
| PNP | Probability of No Penetration |
| POA | Payload Orbital replacement unit Accommodation |
| POL | Point of Load |
| PTCS | Passive Thermal Control System |
| PV | Photovoltaic |
| PVGF | Power and Video Grapple Fixture |
| R&R | Repair & Replace |
| RCS | Reaction Control System |
| REF | Reference |
| REID | Risk of Exposure-Induced Death |
| REV | Revision |
| RF | Radio Frequency |
| RH | Relative Humidity |
| RMS | Root Mean Square |
| RPCM | Remote Power Control Module |
| RPOC | Rendezvous, Proximity Operations and Capture |
| RPODU | Rendezvous, Proximity Operations, Docking, and Undocking |
| RSS | Root-Sum-Square |
| SAS | Space Adaptation Syndrome |
| SCC | Space Components Coordination |
| SCFM | Standard Cubic Feet per Minute |
| SEE | Single Event Effects |
| SEL | Single Event Latchup |
| SEU | Single Event Upset |
| SI | International System of Units |
| SM | Service Module |
| SMAC | Spacecraft Maximum Allowable Concentrations |
| SPDM | Special Purpose Dexterous Manipulator |
| SPE | Solar Particle Effect |
| SPL | Sound Pressure Level |
| SRS | Shock Response Spectrum |
| SSP | Space Station Program |
| SSRMS | Space Station Remote Manipulator System |
| SSSR | Space to Space Station Radio |
| SW | Software |
| TBD | To Be Determined |
| TBR | To Be Resolved |
| TBS | To Be Supplied |
| TCCS | Trace Contaminant Control Subassembly |
| TCP | Transmission Control Protocol |
| TCS | Thermal Control System |
| TDMA | Time Division Multiple Access |
| TIU | Terminal Interface Unit |
| TLV | Threshold Limit Value |
| TRRJ | Thermal Radiator Rotary Joint |
| U.S | United States |
| UDP | User Datagram Protocol |
| UHF | Ultra High Frequency |
| USOS | United States on Orbit Segment |
| UV | Ultra Violet |
| VDC | Volts Direct Current |
| VM | Virtual Machine |
| VSWR | Voltage Standing Wave Radio |
| VUV | Very Ultra Violet |
| VV | Visiting Vehicle |
| WRS | Water Recovery System |
| XVV | X in the Velocity Vector |
| dBA | Decibel A-weighted |
| dBW | Decibel Watt |
| ppCO2 | Partial Pressure of Carbon Dioxide |
| ppO2 | Partial Pressure of Oxygen |