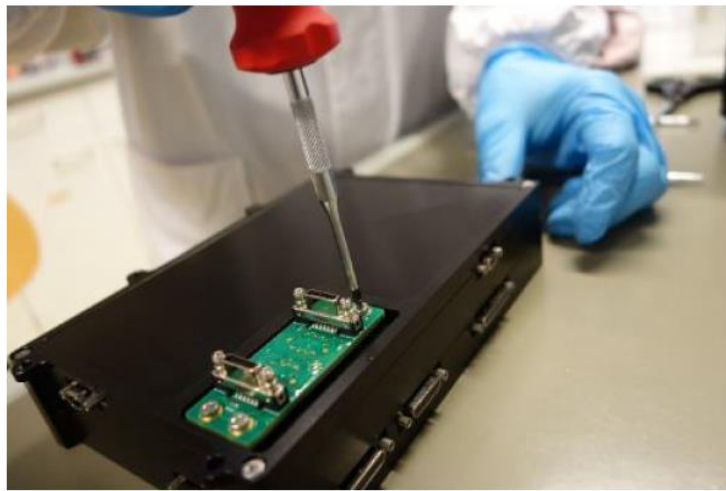


PAYLOAD SUPPORT UNIT

The Payload Support Unit (PLSU) by Berlin Space Technologies is a sophisticated electronic device that is designed to operate a payload, receive, store, process and compress payload data. It further includes an encryption and CCSD engine. Additional functions are to monitor and compensate the temperature of a payload and operate a focus mechanism.



Payload Support Unit

| CHARACTERISTICS | |
|--------------------|--|
| Input from payload | Up to 10Gbit/s data input (raw) User defined interfaces (FPGA) LVDS, Camera Link, GigE, USB |
| Processing | User defined processing (FPGA) Radiometric & geometric image Correction dTDI (Image Stacking) JPEG Compression H.264 Video Compression |
| Storage | 1TB storage size 850 MB/s write speed |
| Encryption | 128bit AES in Counter Mode Diffi Hellman - RSA Key 3072 bit Longer key length on request |
| CCSDS | Compliant |
| Output | Up to 10Gbit/s data input (raw) User defined interfaces (FPGA) LVDS, GigE, USB |