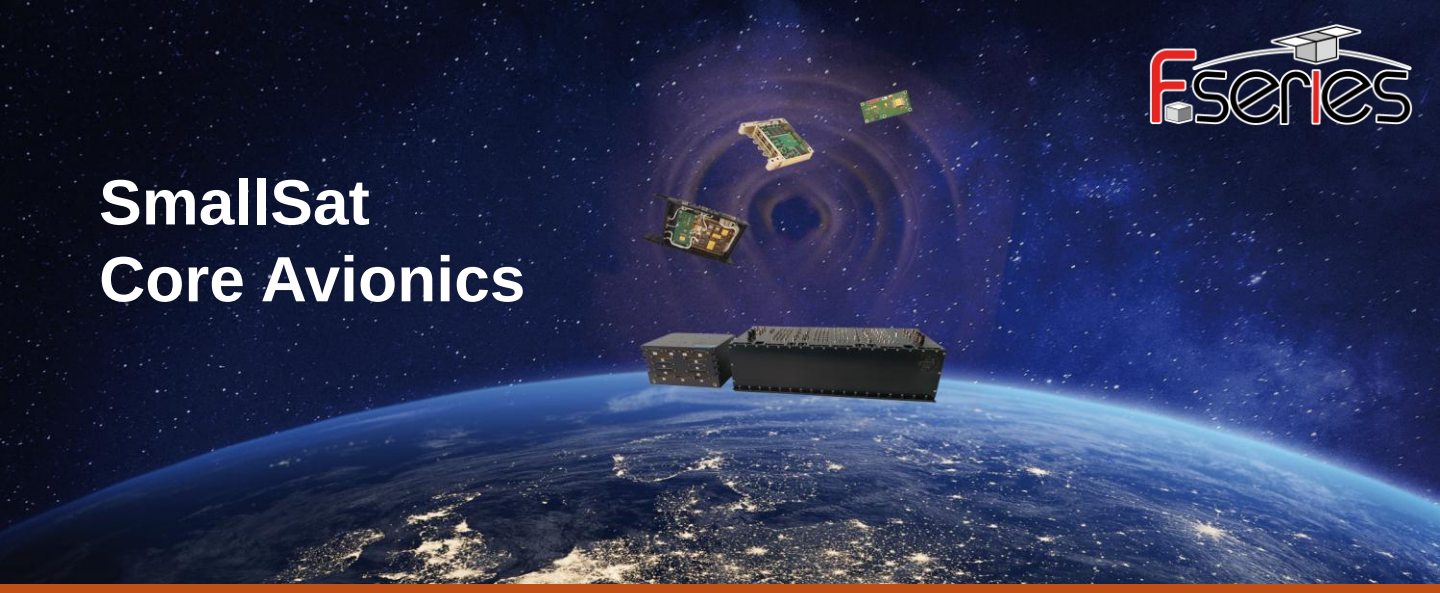
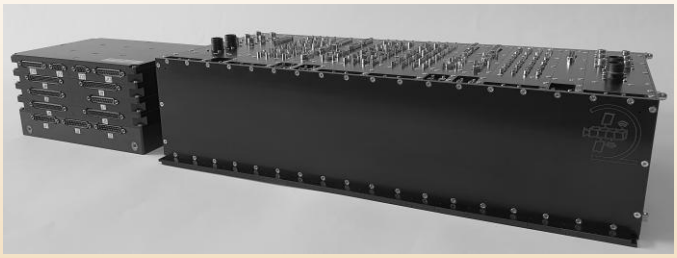
SmallSat Core Avionics



Onboard Computers / Modules

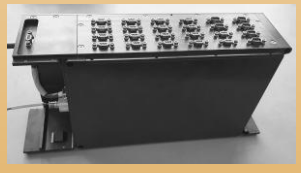




F-Series OBCs are strictly modular with internal SpaceWire module interconnects



CPU Modules
LEON 3 / 4 and ARM A64
SpW, CAN, RS422



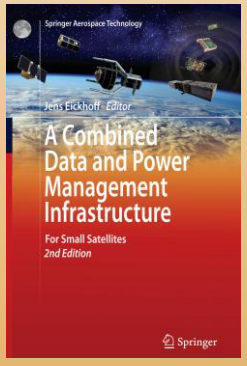
I/O-Router Modules
Spw, RS422, RS485, GPIO



Mass Memory Modules



F-Series Gen3 CCSDS Crypto Modules



F-Series JARVIS-2 OBCs follow the patented CDPI Architecture

Compatible with Vectronic and DHV PCDUs

All modules available in standard cassettes and as bare PCBs in CubeSat compatible format

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SmallSat Core Avionics



Secure Communication Modules for Platform and Payload



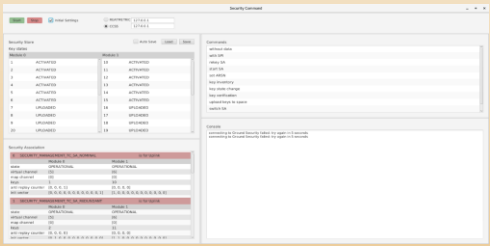
Space Modules



CCSDS Decoder-/Encoder FPGA Boards hosting security functions:

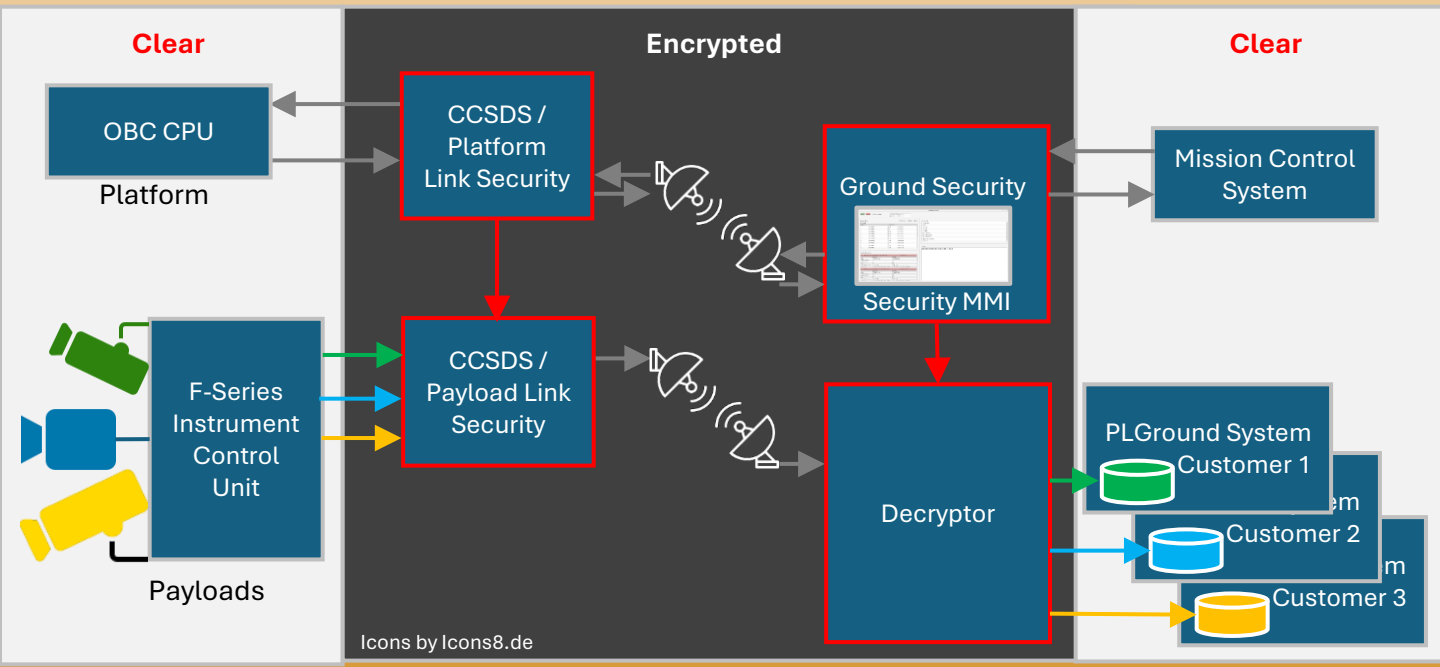
- **Full Red/Black separation** versus CPU Boards / Onboard SW
- AES 256 GCM Authenticated Encryption
- Featuring Over the Air Rekeying/Key uploads
- Communication fully anti-replay hardened
- **For Platform and Payload**

Ground Module



RUST Module connected to MCS:

- Compatible with most Mission Control Systems
- **Full Red/Black Separation**
- COP-1 Protocol kept managed by MCS
- **Platform and Payload Link Management**



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