



X Band Transmitter



Due to the small size of these satellites, one of the main challenges is low consuming equipment, especially for radios communication links.

EWC27 answers to this new game-changing on small satellites, permitting simultaneously:

- High datarate telemetry up to 100 Mbps (optional)
- Robust transmission in X band (8GHz)

A smart concept is implemented for controlling the power amplifier supplies in order to get the best efficiency for each RF power level. The power consumption is always optimized. The architecture of the power supplies is designed to protect the transmitter against latch-up effects from

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mission, in design and manufacturing of radios for micro and mini satellites. A specific product quality approach has been improved since MYRIADE platform and ROSETTA mission with CNES.

EW27 design and manufacturing are mainly based on qualified COTS components, stressing tests on QM units. Architecture inherits from EWC28 X Band transmitter, already in-flight proven on different missions, especially PROBA-V (ESA/QinetiQ Space nv). EWC27 XBT can be adapted for Deep Space, especially in terms of frequency band, bitrate, ...

i Information request

Characteristics

APPLICATIONS

- High DataRate TeleMetry - Up to 100 Mbps
- 2 years lifetime LEO missions
- Observation & Scientific payloads, Experimentation, ...
- DVB-S2

BENEFITS & KEY FEATURES

- Qualified COTS in a miniature design
- Cubesat form factor / PC 104
- Link budget optimisation, by in-flight configuration
- Option: S band Telecommand receiver
- Low consumption & high-efficiency amplifier
- ITAR Free

QUALITY & RELIABILITY

- Radiation tested & hardened
- Functional, Mechanical, Thermal & EMC tests
- Smart protections against SEL

HERITAGE / TRL 9

- > 20 20 units commissioned for build & launch 2016/2017/...
- GOMX-3, ESA-Gomspace (2015)
- OHB group (2017)
- EYE-SAT, CNES (2017)
- OPS-SAT, ESA (2018)
- HawkEye 360 (2017/2018)
- Others : EU, USA, CANADA & ASIA, upon request (2017, ...)
- Based on EWC28 family XBT series inflight proven (2013)

NETWORKS

- CCSDS, Spaceflight Industries, KSAT, NEN*, Atlas, RBC Signals, ...
- Zodiac Data Systems, Kratos / RT Logic, ...

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