The Creonic L-band RF receiver FMC card allows receiving RF signals between 925 and 2,250 MHz. It is ideally suited for satellite communication with standard satellite dishes since it includes a DiSEqC driver IC for LNB controlling. Due to the low-pin-count (LPC) FMC connector it can be used with all FMC carrier boards that support $V_{adj} = 1.8\, \text{V}$.

**Key features**
- RF band 925 MHz – 2,250 MHz
- Programmable bandwidth from 40 MHz to 100 MHz
- Low Noise Amplifier (LNA) included
- Input power -75dBm to 0dBm
- 1.8V LVDS IOs
- DiSEqC support for LNB control

**Applications**
- Satellite communication
- Nanosatellites
- CubeSats
- Rapid prototyping
- Software Defined Radio (SDR)

**Deliverables**
- FMC PCB
- FPGA firmware (VHDL)
- Software firmware (C++)
- Comprehensive documentation

**Standards**
- DVB-S2X / DVB-S2
- DVB-RCS2 / DVB-RCS
- CCSDS
- and many more
The following figure gives an overview of the components on the FMC satellite receiver board.

**Related Products**

DVB-S2X Demodulator  
DVB-S2X LDPC and BCH Decoder  
CCSDS AR4JA LDPC Decoder  
DVB-RCS2 Turbo Decoder

**About Creonic**

Creonic is an ISO 9001:2015 certified provider of ready-for-use IP cores for several algorithms of communications such as forward error correction (LDPC, Turbo, Polar), modulation, and synchronization. The company offers the richest product portfolio in this field, covering standards like 5G, 4G, DVB-S2X, DVB-RCS2, DOCSIS 3.1, WiFi, WiGig, and UWB. The products are applicable for ASIC and FPGA technology and comply with the highest requirements with respect to quality and performance. For more information please visit our website at [www.creonic.com](http://www.creonic.com).

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