

EZiD211 - Oxford 2

Satellite Modem ASIC

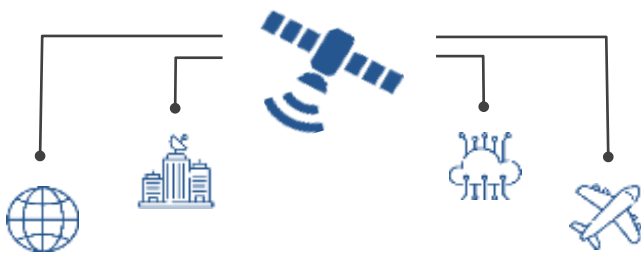


Designed for high end satellite broadband applications the EZiD211 implements 2 high-symbol-rate demodulators and a return channel modulator.

The EZiD211 is optimized for GEO and LEO orbits and incorporates all the techniques required for Ka-band, high density multi-spot and beam hopping scenarios.

The EZiD211 integrates Network Clock Recovery for high precision return channel modulation.

The EZiD211 is compliant with the DVB-S2 standard ETSI EN 302 307-2 and implements the latest S2X, adaptive coding and modulation (ACM), Very Low Signal to Noise Ratio (VLSNR) and super frame functionality.



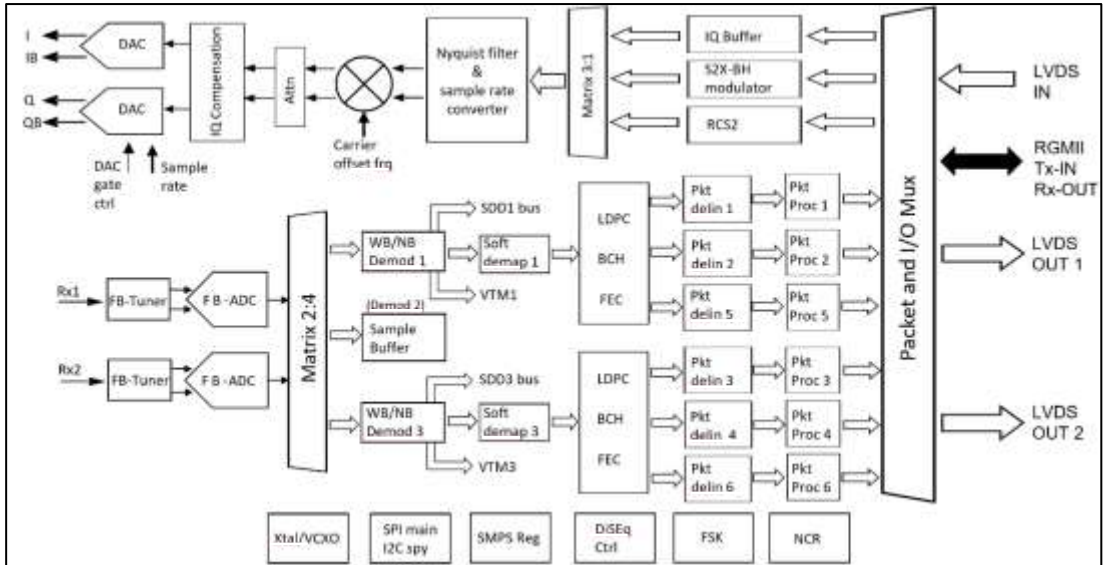
KEY APPLICATIONS

- Consumer broadband modems
- Small Home Office VSAT applications
- Feeder and back-haul satellite infrastructure solutions
- Very high throughput for professional applications
- Avionics, drone etc.
- Remote monitoring

KEY FEATURES & BENEFITS

- Two high-symbol-rate (HSR) demodulators
 - Maximum baud rate of 500 Msymbol/s
 - Up to three slices each demodulator
 - DVB-S2/S2X
 - Annex M compliant
 - Annex E Super Frame formats 5, 6 and 7
 - Dummy Synchronisation Frame
 - Doppler compensation
- Dual FEC decode
 - LDPC/BCH
 - 2 x 720 Mbit/s
- Flexible frame and packet processor
 - Data throughput > 1000Mb/s
- Single multi standard modulator
 - Flexible IQ streaming engine
 - DVB-S2X
 - DVB-RCS2
- NCR PLL

EZID211 BLOCK DIAGRAM



Supplies, power	<ul style="list-style-type: none"> Consumption ≤ 5 W Temperature range: -40°C to $+85^{\circ}\text{C}$
IC & Package	164 pin VQFP multi-row, $13 \times 13 \times 1$ mm ³ package, RoHS compliant

REFERENCE DESIGN

- Schematic – Layout
- Evaluation Board

SOFTWARE DEVELOPMENT KIT

- Graphical User Interface (GUI)
- Hardware Application Layer (C)

HARDWARE AND SOFTWARE RESOURCES

Order code	Description
EZID211-ES	Engineering Samples
EZID211-EVB	Evaluation Board

