

DVB-CID (Digital Video Broadcast - Carrier Identification System) is an ETSI standard for interference prevention within digital data transmission via satellites that was first published in 2013. Its goal is the identification of interfering transmissions from other sources, in order to respond to Radio Frequency Interference (RFI).

The Creonic DVB-CID high performance modulator can be configured by a simple configuration interface and outputs a baseband signal split into real and imaginary part.

Components

- Frame formatting
- CRC8 calculation
- BCH Forward Error Correction encoder
- Scrambler
- Differential encoder
- Signal Spreader
- BPSK Symbol mapper
- Nyquist filter with interpolation
- Gain adjusting
- Complex Mixing

Benefits

- Low-power and low-complexity design.
- Available for ASIC and FPGAs (Xilinx, Altera).

Related Products

[DVB-S2 LDPC and BCH Decoder](#)

[DVB-S2 Demodulator](#)

[DVB-RCS2 Turbo Decoder](#)

[DVB-RCS Turbo Decoder](#)



Features

- Compliant with ETSI TS 103 129 V1.1.1 (2013-05) (DVB-CID).
- Support for complete Content ID table.
- Fine adjustable output gain.
- Baseband output with real and imaginary part.

Applications

- Satellite communication
 - Quality of Service Improvement
 - Interference localization
 - Professional Services

Deliverables

- VHDL source code or synthesized netlist
- comprehensive documentation
- bit-accurate Matlab, C or C++ simulation model
- VHDL simulation testbench with testdata.

About Creonic

Creonic is an ISO 9001:2008 certified provider of ready-for-use IP cores for several algorithms of communications such as forward error correction (LDPC and Turbo coding), synchronization, and MIMO. The company offers the richest product portfolio in this field, covering standards like DVB-S2X, LTE-A, DVB-RCS2, DOCSIS 3.1, CCSDS, 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 www.creonic.com.

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