

DVB-S2X/S2/S Demodulator

OVERVIEW

- Conforms to the following standards:
ETSI EN 302-307-1 V1.4.1
Part I (DVB-S2)
Part II (DVB-S2X)
ETSI EN 300-421 V1.1.2 (DVB-S)
- Wide application scenarios for broadcast
- Ultra-compact 48 pin QFN 6x6 mm package and pin-to-pin compatible with Availink DTMB and multi-standards demodulator family

FEATURES

DVB-S2X/S2

- MODCOD
Normative and optional MODCODs of broadcast service profile
- Symbol rate
QPSK 1-55MSps
8PSK/APSK 1-45MSps
16APSK 1-45Mps
32APSK 1-35Mps
64APSK 1-29Mps
- Only normal (64800 bits) FECFRAME supported
- CCM and VCM supported
- Roll-off factors for pulse shaping: 0.05 to 0.35

DVB-S

- Symbol Rates: 1-55 Msps

- Code Rates: 1/2, 2/3, 3/4, 5/6, 7/8

General

- Fast automatic blind scan
- Carrier frequency acquisition range:
±5MHz when Symbol rate >3 MSps
±3MHz when remaining Symbol rate
- DiSEqC™ 2.x interface supported
- Satellite zero IF input is supported
- I2C repeaters to reduce tuner noise
- Flexible AGC and GPIO outputs for tuner and LNB controls
- Parallel and 1/2 bits Serial MPEG transport stream output capability
- GSE-High efficiency mode (GSE-HEM)
- Supports a tri-state MPEG output interface
- SQI, SSI and BER/PER monitors

AVL6261 Block Diagram

