

## 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	1-45MSPs
32APSK	1-35MSPs
64APSK	1-29MSPs
- 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:
  - $\pm 5\text{MHz}$  when Symbol rate  $> 3\text{MSps}$
  - $\pm 3\text{MHz}$  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

