

Decimator carrier decode

Determine signal quality decoding frames to confirm the FEC type and provide metrics on signal quality

Features

Decodes the following signal types: IESS-308, 309, 310, 314, DVB-SNG, DVB-S and DVB-S2 utilizing:

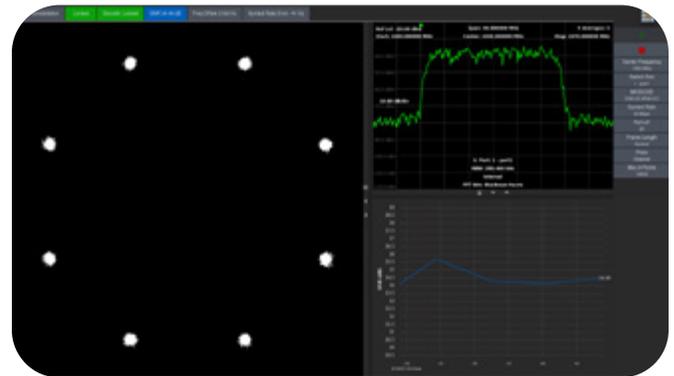
- Modulation types (signal type dependent): QPSK, OQPSK, 8PSK, 16QAM, and 16/32APSK
- FEC types: SEQ, VIT, TCM, TPC and LDPC
- Encoding rates: 1/2, 2/3, 3/4, 5/6, 7/8, 5/12, 0.95 and 21/44

Users specify:

- Carrier center frequency
- Decimator switch port
- Carrier MODCOD
- Carrier symbol rate
- Carrier roll-off
- Carrier frame length
- Whether pilots are enabled
- Maximum number of points to plot in constellation diagram

Provides the following decode information:

- Demodulation lock status
- Decode lock status
- SNR
- Frequency offset
- Symbol rate error
- Constellation plot of demodulated signal
- Spectrum plot of carrier
- Plot of SNR over time



Contact our Calian experts to learn more.