

DVB signal receiving and processing equipment

Product Category : Receiver



Product Parameters

Supports demodulation/decoding of DVB-S (EN 300 421), DVB-S2 (EN 302 307-1), and DVB-S2X (EN 302 307-2).

Supports O3b / OneWeb signal demodulation and decoding.

Supports non-standard (proprietary) coding schemes.

Provides four independent L-band inputs capable of operating across transponders and polarizations.

Fully indigenous and controllable design, with a complete FPGA-based implementation.

Status visualization: spectrum, demodulation constellation, lock parameters, and signal specifications.

Output capabilities: demodulated IQ data, baseband frames, TS/GS streams, IP data, and A/V programs with message reconstruction.

Input Range	950MHz ~ 2150MHz
Input Level	-70dBm ~ -20dBm
Signal Input	4 Channels
Demod. Symbol Rate Lock Range	100ksps ~ 128Msps
IQ Data Output Symbol Rate Range	300ksps ~ 120Msps
Information Rate per Carrier after Decoding	≤250Mbps

Modulation Type, Coding Rate, and Roll-off Factor Support Symbol Rate Range:	
DVB-S:	
QPSK	1/2, 2/3, 3/4, 5/6, 7/8
Roll-off Factor	0.35
DVB-S2:	
Normal Frame 64800(bit)	QPSK: 1/4,1/3,2/5,1/2,3/5,2/3,3/4,4/5,5/6,8/9,9/10 8PSK: 3/5,2/3,3/4,5/6,8/9,9/10 16APSK : 2/3,3/4,4/5,5/6,8/9,9/10 32APSK : 3/4,4/5,5/6,8/9,9/10
Short Frame 16200(bit)	QPSK : 1/4,1/3,2/5,8/9,9/10 8PSK : 3/5,2/3,3/4,5/6,8/9 16APSK : 2/3,3/4,4/5,5/6,8/9
Roll-off Factor	0.1,0.2,0.25,0.35
DVB-S2X:	

Normal Frame 64800(bit)	QPSK: 1/4,1/3,2/5,1/2,3/5,2/3,3/4,4/5,5/6,8/9,9/10(S2-MODCODs)13/45,9/20,11/20 8PSK: 3/5,2/3,3/4,5/6,8/9,9/10(S2-MODCODs)23/36,25/36,13/18 8PSK-L: 5/9,26/45 16APSK : 2/3,3/4,4/5,5/6,8/9,9/10(S2-MODCODs)26/45,3/5,28/45,23/36,25/36,13/18,7/9,77/90 32APSK : 3/4,4/5,5/6,8/9,9/10(S2-MODCODs)32/45,11/15,7/9 32APSK-L : 2/3 64APSK : 11/15,7/9,4/5,5/6 64APSK-L : 32/45 128APSK : 3/4,7/9 256APSK : 32/45,3/4 256APSK-L : 29/45,2/3,31/45,11/15
Short Frame 16200(bit)	QPSK :: 1/4,1/3,2/5,8/9,9/10(S2-MODCODs)1/2,3/5,2/3,3/4,4/5,5/6,11/45,4/15,14/45,7/158/15,32/45 8PSK : 3/5,2/3,3/4,5/6,8/9(S2-MODCODs)7/15,8/15,26/45,32/45 16APSK : 2/3,3/4,4/5,5/6,8/9(S2-MODCODs)7/15,8/15,26/45,3/5,32/45 32APSK : 2/3,32/45
Roll-off Factor	0.05,0.1,0.15,0.2,0.25,0.35

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