NDS3559D

Analog/Digital TV Channel Convertor

Application Sample

DVB-C/T, ATSC, ISDB-T... input

80 MHz

DVB-DVB-C/T, ATSC, ISDB-T... output

110 MHz

Power Supply

User can
- Filter a channel
- Convert one channel to another
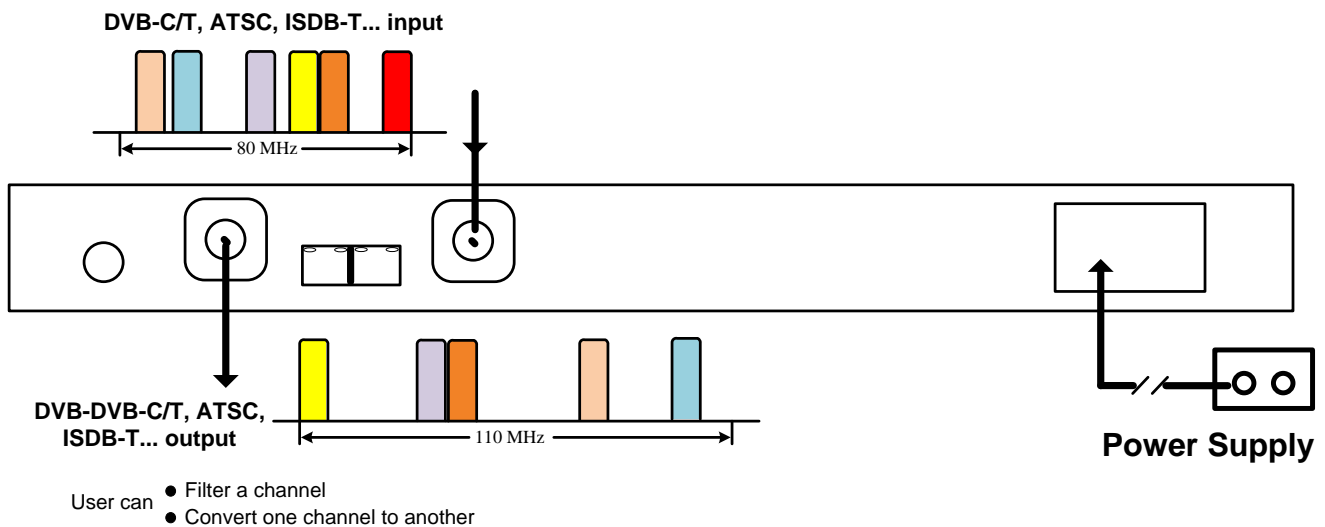
Product Intro

DEXIN NDS3559D analog/digital TV channel processor supports to convert or process 6 channels of frequencies. It makes it possible to efficiently utilize the limited spectrum resources and provide stable signals for fixed and mobile terminals. This TV channel processor is widely used analog and digital DVB-C/T, ATSC, ISDB-T, etc channel conversion, and support 8M or 6M channel bandwidth. For easy operation and management, NDS3559D is designed to remote network upgrade and control.

Key Features

◆ Applicable to analog and digital signal conversion

◆ Support up to 6 channel input and output

◆ Output shoulder leve: ≥57dB (for single channel), ≥54dB (for 6 channels)

◆ output level: -25~-2 dBm, 0.5 dbm step

◆ Support WEB management and system upgrade

Technical Specifications

Input	1*RF IN with up to 6 frequencies	
	RF range: 470-860MHz, 80M bandwidth for start-end channel	
Output	1*RF OUT with up to 6 frequencies - N Type, 50Ω 1* RF TEST - F Type	
	RF range	48~960MHz, 1KHz step, 110M bandwidth for start-end channel
	RF ATT	-25~-2 dBm, 0.5dBm step
	Shoulder level	≥57dB (for single channel), ≥54dB (for 6 channels)
	Image rejection	>70dB
	Spurious in band	<-55dBc
Standard	6M/8M channel bandwidth, DVB-C/T, ATSC, ISDB-T, PAL, NTSC, etc	
System	WEB-server manage	
	WEB system upgrade	
General	Dimensions (W*L*H)	482mm×410mm×44mm
	Weight	4 kg
	Temperature	0~45℃(Running), -20~80℃(Storage)
	Power Supply	AC 220V±10%,50/60Hz
	Consumption	27W

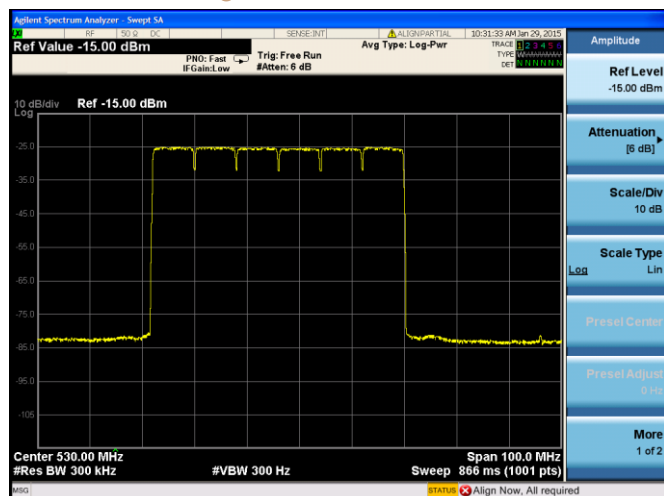# Performance Reference

Figure 1 COFDM Spectrum

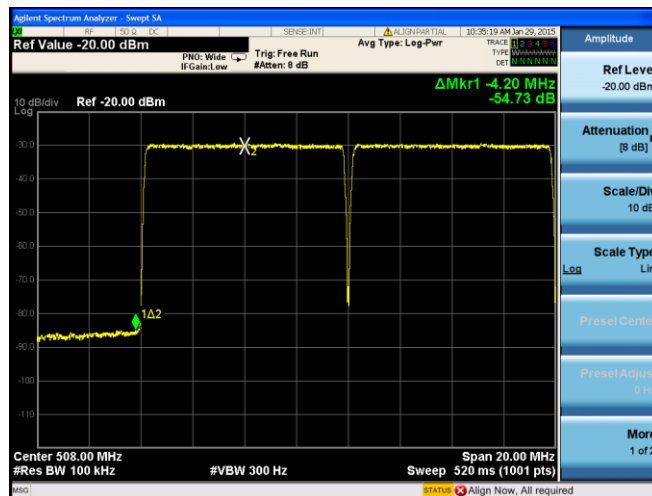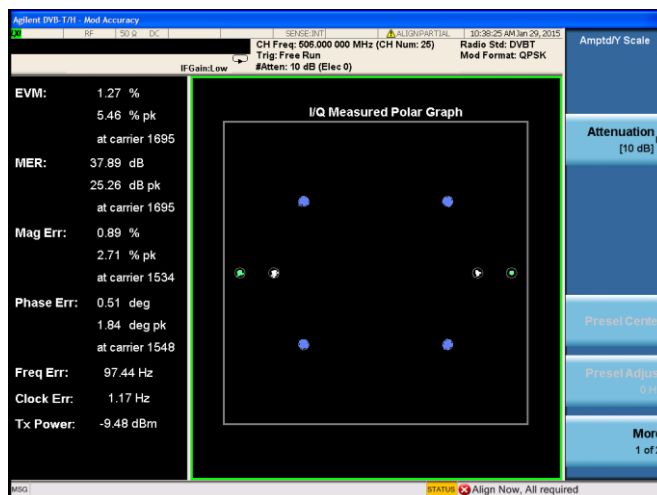**Figure 2 Shoulder Level**
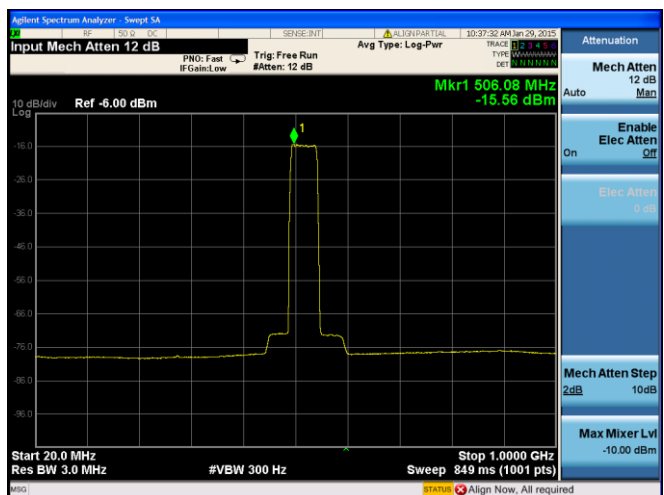
Figure 3 Out-band Rejection
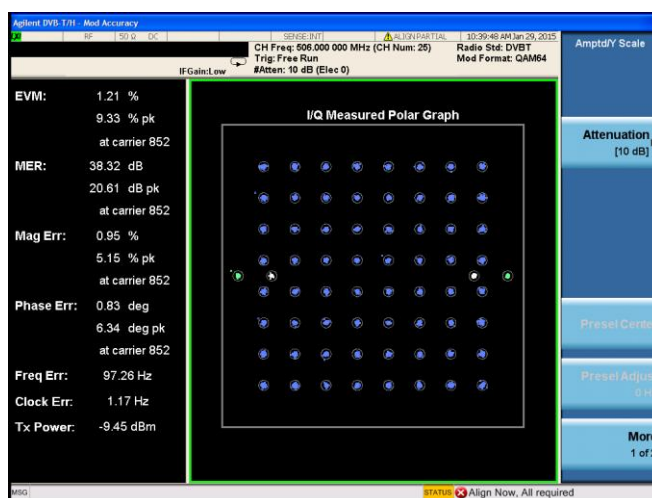

Figure 4 MER (QPSK)

Figure 5 MER (16 QAM)

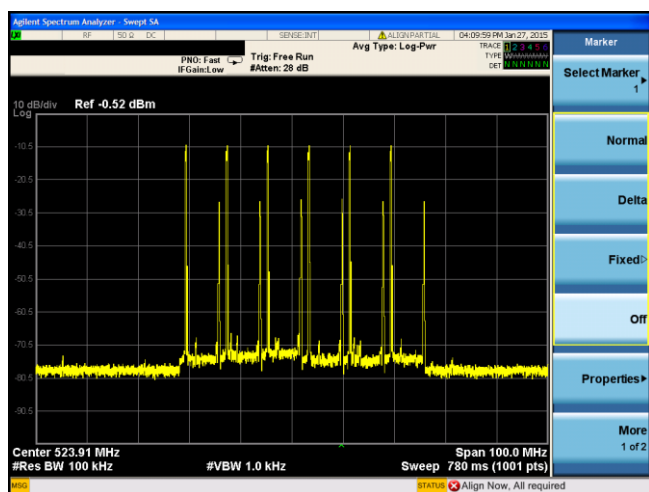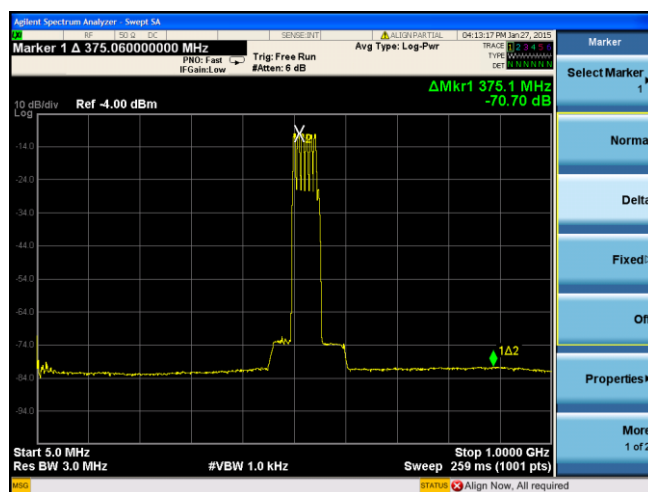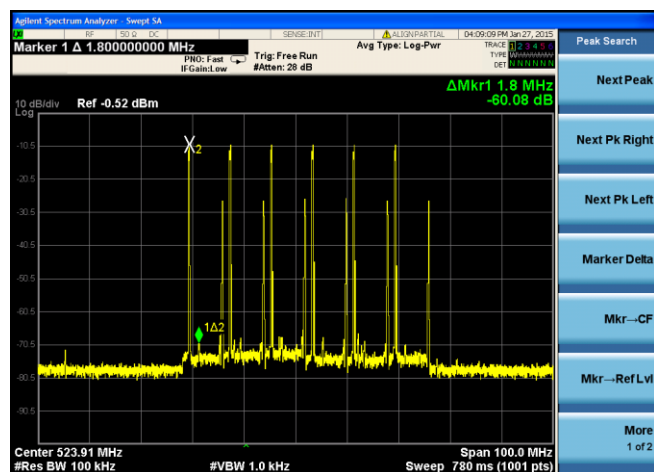**Figure 6 MER (64 QAM)**

Figure 7 Analog Spectrum (D/K)

Figure 8 Out-band Rejection

Figure 9 In-band Spurious