

R&S® SFU-K359

DVB-T2 Waveforms

Specifications

The scope of DVB-T2 waveform applications depends on the R&S®SFx-B3 ARB memory of the R&S®SFx.

DVB-T2 waveforms	I/Q sequences in line with TM-T2 DVB-T2 V & V parameter sets	see description of option for details	
ARB memory (R&S®SFx-B3)	recommended waveform memory	1 Gbyte (256 Msample) ¹	
ARB clock rate	8 MHz bandwidth	11.428570 MHz	
Transmission	operating modes	A (single PLP), B (multiple PLP)	
	PLP	single PLP: data type 1 multiple PLP: data type 1, data type 2, common	
	system	SISO MISO (group 1 only, group 2 only, group 1 and group 2)	
	channel bandwidth	8 MHz	
	constellation		
	rotated	depending on selected sequence	
	non-rotated	256QAM	
	FFT mode	depending on selected sequence	
	code rate	depending on selected sequence	
	pilot pattern	depending on selected sequence	
	Signal set	sequence numbering	based on TM-T2 DVB-T2 V & V reference
		sequences ²	
		single PLP	001, 003, 012, 013, 014, 015, 016, 018 (MISO), 019
multiple PLP		021, 022, 023, 025, 026, 400	
size		256 Mbyte, 512 Mbyte, 1 Gbyte	
data rate		depending on selected sequence	
content		digital video and audio	
video content		depending on selected sequence	
length		whole number of superframes, 5.2 s up to 23.4 s (depending on loaded waveform)	

¹ Full support with R&S®SFU-B3 256 Msample (1Gbyte) or R&S®SFU-U35.

² Listed waveforms are part of R&S®SFU-K359 release version 01.10.



Waveform support	R&S®SFU	
	with R&S®SFU-B3 (64 Msample)	not all modes are available as waveforms with length of 256 Mbyte
	with R&S®SFU-B3 (128 Msample)	all waveforms (up to 512 Mbyte)
	with R&S®SFU-U35 (256 Msample)	all waveforms (up to 1 Gbyte)
	with R&S®SFU-B3 (256 Msample)	all waveforms (up to 1 Gbyte)
	R&S®SFE ³	all waveforms (up to 1 Gbyte)
	R&S®SFE100 ⁴	all waveforms (up to 1 Gbyte)

³ Full support with R&S®SFE firmware V01.40 or later.

⁴ Full support with R&S®SFE firmware V01.40 or later.

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