

# R&S® WV-K811, R&S® SFU-K361 DRM+ Waveforms Specifications

DRM waveforms	I/Q sequences	in line with ETSI TS 201980, Digital Radio Mondiale
	release	V01.00, see description of option for details
ARB memory (R&S®SFx-B3)	minimum required waveform memory	512 Mbyte (128 Msample)
	recommended waveform memory	4 Gbyte (1024 Msample)
ARB clock rate	bandwidth	100 kHz
	sampling rate	192 ksps
Transmission	transmission mode	E
	bandwidth	100 kHz
	constellation	
	SDC	4QAM
	MSC	4QAM, 16QAM
	code rate MSC	0.25, 0.33, 0.40, 0.50 for MSC 4QAM; 0.33, 0.41, 0.50, 0.62 for MSC 16QAM (depends on loaded waveform)
	interleaver	600 ms
Signal set	sequence content	digital audio, data (PRBS), slideshow (depends on loaded waveform)
	length	depends on loaded test vector
	minimum length	500.4 Mbyte
	maximum length	504.1 Mbyte
	directory	<ul style="list-style-type: none"> <li>DVD1: MSC 4QAM</li> <li>DVD2: MSC 16QAM, services</li> </ul>

DVD1 (MSC_4QAM)	purpose	function tests and performance measurements MSC 4QAM
	code rate	
	MSC part A	0.25, 0.33, 0.40, 0.50
	MSC part B	0.25, 0.33, 0.40, 0.50
	services	up to four services
	type	audio, data, slideshow (depends on loaded waveform)
	mean signal level	-6 dBfs
	identifications	<ul style="list-style-type: none"> <li>• 0xAFFE</li> <li>• 0xAFFA, 0xF</li> <li>• 0xFF, 0x422</li> <li>• 0x468, 0xC1D2</li> <li>• 0x467</li> </ul>
	language	Japanese, German, English, Hindi
	language of audience	English, Dakota, Balinese, Dakota, Hindi, Urdu, artificial language
	country code	Germany, Canada, Austria, India, Pakistan, Afghanistan
	codec	AAC, AAC with SBR, xHE-AAC
	mode	mono, stereo, (parametric) stereo + SBR
	sampling rate	24/32/48 kHz
	data	
	mean signal level	-6 dBfs
	identifications	<ul style="list-style-type: none"> <li>• 0xAFFE, 0xAFFF</li> <li>• 0x423, 0x469</li> </ul>
	language	Korean, English, German
	country code	Cameroon

DVD2 (MSC_16QAM)	purpose	function tests and performance measurements MSC 16QAM
	code rate	
	MSC part A	0.50, 0.60, 0.71, 0.78
	MSC part B	0.50, 0.60, 0.71, 0.78
	services	up to four services
	type	audio, data, slideshow (depends on loaded waveform)
	mean signal level	-6 dBfs
	identifications	<ul style="list-style-type: none"> <li>• 0xAFFD</li> <li>• 0xF, 0xFF</li> <li>• 0x3FE, 0x3FF</li> <li>• 0x45A, 0x467</li> <li>• 0x468, 0xC1D2</li> </ul>
	language	Arabic, Chinese, Dutch, Hindi, German, French, Javanese, Korean, Portuguese, Russian, Spanish
	language of audience	Afar, Abkhazian, Achinese, Acoli, Adangme, Adyghe Adygei, Afro-Asiatic, Afrihili, Africaans, Ainu, Basa, Caddo, Dakota, Dargwa, Hindi, Land Dayak, Urdu
	country code	Afghanistan, Åland Island, Anguilla, Antarctica, Antigua and Barbuda, Canada, Cabo Verde, Cayman Islands, Central African Republic, Chad, India, Pakistan
	codec	AAC, AAC with SBR, xHE-AAC
	mode	mono, stereo, (parametric) stereo + SBR
	sampling rate	24/32/38.4 kHz
	data	
	mean signal level	-6 dBfs
	identifications	<ul style="list-style-type: none"> <li>• 0xAFFF, 0x400</li> <li>• 0x469</li> </ul>
	language	Bengali, German
	country code	Cameroon

DVD2 (services)	purpose	function tests with 1 to 4 services
	code rate	
	MSC part A	0.50, 0.60, 0.71, 0.78
	MSC part B	0.50, 0.60, 0.71, 0.78
	services	1, 2, 3 or 4
	type	audio, data (depends on loaded waveform)
	audio	
	mean signal level	-6 dBFs
	identifications	<ul style="list-style-type: none"> <li>• 0xABCD, 0xBCDE</li> <li>• 0xBCDF, 0xCEEE</li> <li>• 0x3EA, 0x3F1</li> <li>• 0x3FB, 0xC111</li> <li>• 0xA002, 0xA003</li> <li>• 0xA004</li> </ul>
	language	Arabic, Dutch, French, Hindi, Japanese, Javanese, Korean, Portuguese, Russian
	language of audience	Acoli, Sorbian language, Walloon, Welsh, Washo, Xhosa, Yao, Yapese, Yiddish, Yoruba, Yupik language, Zande language, Zenaga
	country code	Åland Island, Trinidad and Tobago, Tonga, Turkey, Tunisia, Tuvalu, Uruguay, Uzbekistan, Vanuata, Venezuela, Vietnam, Yemen, Western Sahara
	codec	AAC, AAC with SBR, xHE-AAC
	mode	mono, stereo, stereo + SBR
	sampling rate	24/32/38.4 kHz
	data	
	mean signal level	-6 dBFs
	identifications	0x3EB
	language	German
	country code	-
Waveform support	R&S®SFU	full support of all DRM waveforms
	R&S®SFE	full support of all DRM waveforms
	R&S®SFE100	full support of all DRM waveforms
	R&S®BTC	full support of all DRM waveforms

## Ordering information

Designation	Type	Order No.
DRM+ Waveforms	R&S®WV-K811	2116.9887.02
DRM+ Waveforms	R&S®SFU-K361	2110.8366.02

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