File Header

80 bytes

Type of block	Field	Format	Note
File Format Header 24 bytes	FileName	*String* com 15 caracteres (um byte por caractere)	"RFlookBin v.1/1" Format: RF Look Bin Version: 1 DataType: 1
	BitsPerPoint	uint8	8 (uint8) | 16 (uint16) | 32 (float32/single) uint8(2.*specData + value) value = -2*RefLevel+255 int16(100.*specData) single(specData)
	EstimatedSamples	uint32	
	WritedSamples	uint32	
Spectrum analyzer MetaData 26 bytes	F0	single (float32)	
	F1	single (float32)	
	Resolution	single (float32)	
	DataPoints	uint16	
	TraceMode	int8	1 (ClearWrite) | 2 (Average) | 3 (MaxHold) | 4 (MinHold)
	Detector	int8	1 (Sample) | 2 (Average) | 3 (RMS) | 4 (PositivePeak) | 5 (NegativePeak)
	LevelUnit	int8	1 (dBm)
	Preamp	int8	0 (Off) | 1 (On)
	AttenuationMode	int8	0 (Manual) | 1 (Automatic)
	AttenuationFactor	int8	Se attMode = 1, attFactor = 0;
	SampleTime	single (float32)	
	Alignment 64-bits	2 bytes	
GPS Data 18 bytes	gpsType	uint8	0 (manual) | >= 1 (auto) - 1 (built-in gps) - 2 (external gps)
	gpsStatus	uint8	-1 (manual) | 0 (invalid) | >= 1 (valid)
	Latitude	single (float32)	IF gpsStatus <= 0: Latitude = -1
	Longitude	single (float32)	IF gpsStatus <= 0: Longitude = -1
	utcTimeStamp_YY	int8 (-2020)	IF gpsType = 0 || gpsStatus == 0: utcTimeStamp_YY = -1 utcTimeStamp_MM = -1 utcTimeStamp_DD = -1 utcTimeStamp_HH = -1 utcTimeStamp_mm = -1 utcTimeStamp_ss = -1 utcTimeStamp_SSS = -1
	utcTimeStamp_MM	int8	
	utcTimeStamp_DD	int8	
	utcTimeStamp_HH	int8	
	utcTimeStamp_mm	int8	
	utcTimeStamp_ss	int8	
	utcTimeStamp_SSS	int16 (*1000)	
Offset Info 12 bytes	Offset1	Uint32	Start byte of GPS/TimeStamp Block
	Offset2	Uint32	Start byte of Spectral Block
	Offset3	Uint32	Start byte of Text Trailer Block

Gps/TimeStamp Data

(20*EstimatedSamples) bytes

Field	Format
localTimeStamp_YY	int8 (-2020)
localTimeStamp_MM	int8
localTimeStamp_DD	int8
localTimeStamp_HH	int8
localTimeStamp_mm	int8
localTimeStamp_ss	int8
localTimeStamp_SSS	int16 (*1000)
RefLevel	Int16
AttenuationFactor	uint8
gpsStatus	uint8
Latitude	single (float32)
Longitude	single (float32)

Spectral Block

(BitsPerPoint/8 * DataPoints * EstimatedSamples) bytes

Field	Format
Array of Levels	Vetor com comprimento igual a DataPoints, sendo cada número representado como uint8, uint16 ou float32.

Text Trailer Block

{TaskName: "PMEC 2021"; ThreadID: "1"; Description: "Uma faixa qualquer"; Node: "R&S/FSL-6/01"; Antenna: "CRFS Low Band"; AntennaHeight: "2 m"; RevisitTime: "1 seg"}

Optional fields	Format
AntennaAzimuth AntennaElevation	Field_N: "Value_N"
Selectivity	
IntegrationTime	
Threshold	