UFO®*compact* signal processing system

KATHREIN

Twin DVB-T transmodulator COFDM-QAM

UFO 357/TP 20610085

Features

- Twin DVB-T transmodulator for insertion into the UFO®*compact* (extension) module carriers UFG 3xx/4xx
- Transmodulates two COFDM modulated DVB-T signals into two QAM modulated output signals
- Two channel units are integrated in one module
- Two inputs (input A for channel unit twin I, input B for channel unit twin II)
- All essential transmission parameters can be set via the central control unit
- Both output channels can be set individually
- Both output levels can be individually set or switched off via the control unit
- Adjacent channel compatible
- MPEG transport stream processor and QAM modulator as an FPGA solution with with outstanding MER and shoulder attenuation values
- MPEG 2 transport stream processor:
  - To set a constant output data rate (Stuffing) with PCR correction
  - With programme filter to remove individual TV and radio programmes (more convenient setting using the USW 30 and UFX 31x)
  - For NIT matching (Cable NIT; UFX 31x additionally required)
  - For CAT matching, e.g. to set the operator ID
- QAM modulator for 16/32/64/128/256 QAM (factory setting: 64 QAM)
- Software updates via control unit interface
- Permissible ambient temperature for operation in:

  - module carrier with extraction fan (UFG 412): -20 to +50 °C
  - (extension) module carrier without extraction fan (UFG 3xx): -20 to +40 °C
- Required central controller software version: as of V 9.31
- Dimensions (W x H x D) in mm: 265 x 27 x 170
- Packing unit/weight (pc./kg): 1/1.0

Technical data

Type Order no.	Frequency range (MHz)		Input level	COFDM modes	Output data rate [3]	Modulation Error Rate MER	Max. output level	Setting range output level	Current drain
	Input 47-862 [1]	Output 47-100/110-862 [2]	(dBµV)		(MS/s)	(dB)	(dBµV)	(dBµV)	(V/mA)
UFO 357/TP 20610085	**Ch** **Ch**	**Ch** **Ch**	45-90 (16 QAM) 55-90 (64 QAM)	2 k, 8 k	2.275-7.15	43	91 (QAM 256) 85 (QAM 64)	81-91 (QAM 256) 75-85 (QAM 64)	5/280 12.5/750 31/7

[1] For channel unit twin I and twin II, frequency range input independently settable in 6/7/8 MHz steps, fine-tuning in 100 kHz steps

[2] Settable in 8 MHz steps; fine tuning in 250 kHz steps

[3] Settable (Stuffing)