Modular reception system
Quatro and twin IP DVB modulators

Converting of TSoIP input signal into
4 QAM/COFDM modulated DVB-C/T channels and
2 QPSK modulated DVB-S channels.

- SPTS or MPTS input stream
- MPTS service filtering
- PCR restamping
- RTSP protocol conversion to transport stream
- Web control panel via Ethernet port
- TS file streaming from USB flash
- RF loop through input
- DIN rail or wall mounting
- robust die-cast housing
- connectors:
  RF input/output - type F
  Ethernet control, Ethernet stream input - RJ-45
  USB - USB-A
  screw terminal block for DC entry
  power distribution bus

miq440
DVB-C modulator

mix440
DVB-T modulator

mid420
DVB-S modulator

miq440
mix440



mid420



Technical specifications

TYPE			miq440	mix440	mid420
Ordering number			03870	03871	03873
IP input	standard		IEE802.3 100/1000 BaseT		
	bitrate		up to 200 Mbps		
	reception protocols		UDP/RTP, RTSP		
	MPTS		Yes		
	SPTS		Yes		
RF output	DVB standard	pr.	**DVB-C**	**DVB-T**	**DVB-S**
	frequency range	pr.	96-862 MHz	170-230 MHz / 470-862 MHz	250-2350 MHz
	channel allocation		adjacent		independent
	channel count		4		2
	level/impedance		90 ± 2 dBµV/75 Ω		80 ± 2 dBµV/75 Ω
	TS bit rate		< 53 Mbit/s	< 31 Mbit/s	< 72 Mbit/s
	MER		≥ 40 dB	≥ 35 dB	≥ 30 dB
	modulation	pr.	QAM16, QAM32, QAM64, QAM128, QAM256	QPSK, QAM16, QAM64	QPSK
	channel bandwidth	pr.	4...8.3 MHz	7 MHz / 8 MHz	3...60 MHz
	symbol rate	pr.	3.5...7.2 Ms/s	-	2...45 Ms/s
	transmission mode	pr.	-	**2K / 8K**	-
	total output level adjustment	pr.	0 ÷ -15.0 dB by 1 dB step		
	loop through frequency range/loss		45-862 MHz / ≤ 2.5 dB		45-2400 MHz / ≤ 5.0 dB
Management port			standard IEE802.3 10/100 BaseT (independent on IP input)		
Current consumption			12 V 700 mA		12 V 1 A
Operating temperature range			0° ÷ +50° C		
Dimensions/Weight (packed)			36x198x112 mm/0.84 kg		48.5x198x112 mm/1.06 kg

pr. software control