



# Modular reception system

## Quatro and twin IP DVB modulators

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

NEW

- 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



Technical specifications		TYPE		
		miq440	mix440	mid420
<b>Ordering number</b>		03870	03871	03873
<b>IP input</b>	standard	IEE802.3 100/1000 BaseT		
	bitrate	up to 200 Mbps		
	reception protocols	UDP/RTP, RTSP		
	MPTS	Yes		
	SPTS	Yes		
<b>RF output</b>	DVB standard	<b>DVB-C</b>	<b>DVB-T</b>	<b>DVB-S</b>
	frequency range	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	QAM16, QAM32, QAM64, QAM128, QAM256	QPSK, QAM16, QAM64	QPSK
	channel bandwidth	4...8.3 MHz	7 MHz / 8 MHz	3...60 MHz
	symbol rate	3.5...7.2 Ms/s	-	2...45 Ms/s
	transmission mode	-	<b>2K / 8K</b>	-
	total output level adjustment	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
<b>Management port</b>	standard IEE802.3 10/100 BaseT (independent on IP input)			
<b>Current consumption</b>	12 V 700 mA		12 V 1 A	
<b>Operating temperature range</b>	0° ÷ +50°C			
<b>Dimensions/Weight (packed)</b>	36x198x112 mm/0.84 kg		48.5x198x112 mm/0.97 kg	

pr. software control