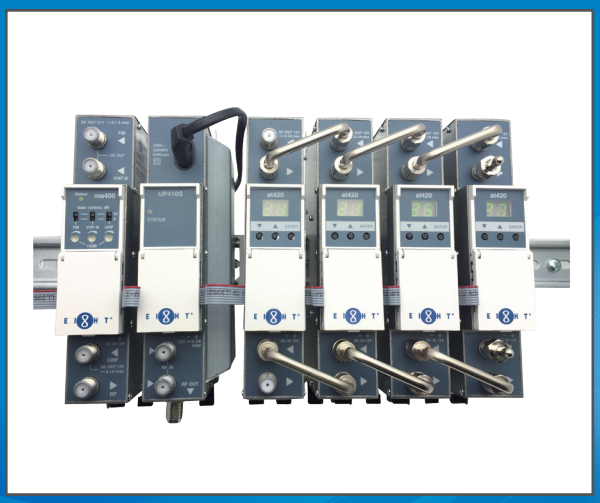
E I 8 H T®

Infinite Possibilities

HEADEND > Digital / Analog Headend



Modular Headend System
EH400

Features

Made In Europe

AT420
UHF TV DUAL Channel Amplifiers

- TV channel amplifiers tunable in UHF range
- SAW filters provide a high selectivity processing of digital and analog channels
- Each section has a built-in AGC system and independent regulator of output level
- Built-in indicators and push buttons allow operatively to set required parameters
- DIN rail or wall mounting
- Robust die-cast housing

MA400
Multiband System Amplifier

- FM, BIII & DAB and UHF inputs
- High output level
- Built-in gain controls
- DIN rail or wall mounting
- Robust die-cast housing

UP410S
Power Supply

- Modular power supply with integrated RF combiner
- Switch-mode technology
- Short circuit and overload protected
- Robust die-cast housing

Specifications

AT420 UHF TV DUAL Channel Amplifiers

RF Input	Sections	2	
	Tuning Range of Channels	470 ~ 862 MHz	
	TV Standard (pr.)	analog (G, K, I, NZ)	DVB-T* / DTMB
	Channel Bandwidth	8 MHz	8 MHz
	Level / Impedance	60-85 dBµV/75 Ω	50-80 dBµV/75 Ω
	Frequency Range of RF Distribution	47-862 MHz	
	Loop Through Gain	0 ± 1.5 dB	
	Return Loss	>12 dB	
RF Ouput	Level / Impedance, Typical	90 dBµV / 75 Ω	85 dBµV/ 75 Ω
	MER of DVB-T Signal	---	≥ 36 dB (input signal MER 38 dB)
	Frequency Range of RF Combining	47 ~ 2150 MHz	
	DC Pass Through	0.3 A	
	Combining Through Loss Terr/SAT	1.5/2.5 dB	
	Level Adjustment Range (pr.)	0 ~ -10 dB by 1 dB step	
	Return Loss	≥10 dB	
General	Noise Figure	8 dB	
	Selectivity, Typical (pr.)	40 dB, ±1.25 MHz from 8 MHz bandwidth border	
	Offset (✻)	±1 MHz by 0.25 MHz step	
	Spurious Signals Level	≤ -60 dBc	
	Mirror Channel Selectivity	≥ 60 dB	
	Flatness of Channel Bandwidth, Typical	± 1.5 dB	
	Connector / Impedance	F type / 75 Ω	
	DC Feeding for External	12V 0.1A max.	
	Current Consumption (✻✻)	12V 0.45A	
	Operating Temperature Range	0 ~ +50C	
	Dimensions / Weight (packed)	36 x 198 x 107.5 mm / 0.9 kg	

MA400 Multiband System Amplifier

Gain	*FM (88-108 MHz)*	30 dB
	VHFIII (174-260 MHz)	30 dB
	UHF (470-862 MHz)	30 dB
Number of Inputs		3
Noise Figure		< 7 dB; UHF < 5 dB
Maximal Output Level IMD3=60 dB (DIN45004B)		VHF 116 dBµV; UHF 118 dBµV
Gain Control	*Attenuator*	0 ~ -15 dB
	Switch	0/-10 dB
Return Loss		> 10 dB
Connector / Impedance		F type / 75 Ω
DC Feeding for External (Total)		12V 0.1 A max.
Current Consumption (✻✻)		12V 0.48 A
Operating Temperature Range		0 ~ +50 C
Dimensions / Weight (packed)		36x198x107.5 mm / 0.9 kg

UP410S Power Supply

Power Supply	Input Voltage	187~250 V~ 50/60 Hz
	Output Voltage, Current	12V 4.5 A max.
	Power Consumption	65 W max.
RF Combiner	Frequency Range	47~2400 MHz
	Insertion Loss	4 dB at 862 MHz
		6 dB at 2400 MHz
	Isolation	≥ 20 dB
	Return Loss	≥ 20 dB at 862 MHz
		≥ 12 dB at 2400 MHz
Other	Operating Temperature Range	0 ~ +50 C
	Dimensions	48 x 198 x 107.5 mm
	Weight (packed)	0.97 kg

(✻) *The offset is used for fine tuning of the channel frequency response*

(pr.) *Software control*

(✻✻) *Without external DC loading*

Specifications subject to change without notice.

Eight Limited
No.18, 4/F., Thriving Industrial Centre, 26-38 Sha Tsui Road, Tsuen Wan, N.T., Hong Kong
Tel: (852) 2413 2222 **Fax:** (852) 2411 3000 **Email:** info@eightgroup.com

Visit us at Website
http://www.eightgroup.com