

# AMB 800 Series



**Professional mast band amplifiers, immune to all signals from other services which share the radioelectric spectrum, such as mobile phones, wireless transmissions, terrestrial communications....**

**APPLICATION**

Suitable for individual systems or small installations, with high sensitivity and output power (114 dBμV), the AMB 800 is a heavy-duty amplifier, ideal for future applications according to new Digital Terrestrial TV (DTT) requirements. It is prepared to process both analogue and digital signals during the migration towards DTT.

**CHARACTERISTICS**

- Very low noise figure and independent from gain regulation
- Test point at -30 dB that allows level control without interrupting remote power and function.
- The mechanical solution guarantees an exceptional immunity against noise invasion, a critical aspect for DTT reception.
- 3 Notch filters can be adjusted over the whole UHF band, or even in their extremes to achieve an additional rejection to unwanted signals.
- F connectors.
- AMB 836: with DCpass for pre-amplifiers.



Supply voltage	24 ± 10% Vdc	
Operating temperature range	- 20 ÷ 60° C	
Selective equalization	3 tuneable UHF filters in main amplification line	
Notch 1	390 MHz	12
	660 MHz	7
Notch 2	445 MHz	16
	720 MHz	7
Notch 3	600 MHz	4
	975 MHz	11

MODEL	AMB 810		AMB 820		AMB 823		AMB 824		AMB 830			AMB 831			
Reference	36010		36020		36023		36024		36030			36031			
Nbr. of inputs	1				2							3			
Bands	Bi/BIII	UHF	Bi/BIII	UHF	Bi,FM/BIII	UHF	FM	BIII/UHF	Bi,FM/BIII	UHF	UHF	UHF	Bi/BIII	UHF	UHF
Gain dB	28	38	28	38	28	38	28	28/38	28	38	38	28	38	38	
Gain regulation dB	25	15	25	15	25	15	25	25/15	25	15	15	25	15	15	
Output level DIN 45004B-60 dBμV	114														
Input/output impedance Ω	75														
Noise figure dB	5	3	5	3	5	3	5	3/5	5	6	6	5	6	6	
Rejection out of band dB	Compliance with EN 50083-2 "Antenna Input Resistance" • Internal immunity against unwanted signals from out of band														
Test output dB	-30 dB (from main output)														
Current draw mA	93				100				93						
Packing dimensions mm	170 x 105 x 50														
Weight Kg	0,355														

MODEL	AMB 832*			AMB 834*			AMB 835			AMB 836**			AMB 840*			
Reference	36032			36034			36035			36047			36055			
Number of inputs							3						4			
Bands	Bi/BIII	UHF <sub>1</sub>	UHF <sub>2</sub>	Bi,FM/	UHF <sub>1</sub>	UHF <sub>2</sub>	Bi,	BIII	UHF	FM	BIII/DAB	UHF	Bi,FM/BIII	UHF	UHF <sub>1</sub>	UHF <sub>2</sub>
Gain dB	28	38	38	28	38	38	28	28	38	18	18	28	28	34	33	33
Gain regulation dB	25	15	15	25	15	15	25	25	15	15	15	15	25	15	15	15
Output level DIN 45004B-60 dBμV	114															
Input/output impedance Ω	75															
Noise figure dB	5	3	3	5	3	3	5	5	3	5	5	3	5	6	7	7
Rejection out of band dB	Compliance with EN 50083-2 "Antenna Input Resistance" • Internal immunity against unwanted signals from out of band															
Test output dB	-30 dB (from main output)															
Current draw mA	93						70						100			
Packing dimensions mm	170 x 105 x 50															
Weight Kg	0,355															

UHF<sub>1</sub>: 21...37  
 UHF<sub>2</sub>: 38...69  
 \*Other frequencies available under request.  
 \*\* With DC pass 12 Vcc, 40 mA at UHF input.

N	UHF <sub>1</sub> : 21-37	UHF <sub>2</sub> : 38-69	R	UHF <sub>1</sub> : 21-45	UHF <sub>2</sub> : 46-69	U	UHF <sub>1</sub> : 21-56	UHF <sub>2</sub> : 57-69
A	UHF <sub>1</sub> : 21-41	UHF <sub>2</sub> : 43-69	S	UHF <sub>1</sub> : 21-47	UHF <sub>2</sub> : 48-69	V	UHF <sub>1</sub> : 21-39	UHF <sub>2</sub> : 41-69
Q	UHF <sub>1</sub> : 21-49	UHF <sub>2</sub> : 50-69	T	UHF <sub>1</sub> : 21-29	UHF <sub>2</sub> : 30-69	W	UHF <sub>1</sub> : 21-54	UHF <sub>2</sub> : 55-69