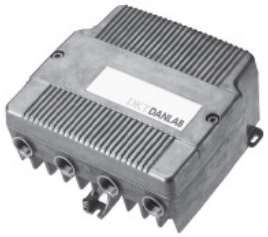
distribution & mini-trunk amplifier



Highlights

- Very high system performance
- High output level
- High gain
- Low noise figure (NF)
- Competitive price/performance
- GaAs FET hybrid technology

Applications

- Distribution amplifier
- Used in bi-directional broadband HFC networks
- For upgrading existing networks or establishing new networks
- Enables more subscribers to be connected to existing equipment; reducing network expansion costs

Key features

- High output level and low power consumption
- Gain and tilt adjustment by adjustable attenuators
- On board input attenuator, equaliser and cable simulator function
- Interstage attenuation and tilt combined in one compact module
- Flexible output splitter module
- Test points (-20 dB) at input (non-directional) and output (directional)
- Flexible return path by plug-in diplexer modules
- On board active or passive return path, selected by a switch
- Return path test point (-20 dB) at input (non-directional)
- Mains or line powered with switch mode power supply
- Die-cast aluminium housing meeting IP65 degree of dust and water protection
- 5A AC feed through to Input terminal and 10A external AC input terminal
- Excellent surge and transient protection

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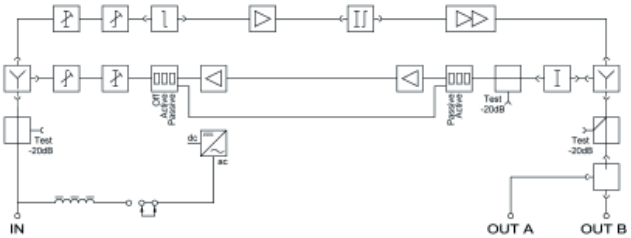
technical specifications

Accessories

Please refer to separate datasheets / pricelist

- Diplexer Filter Modules: MDA xxxx
- Splitter Module: MS xxx
- Interstage Module: MEX 80x/0x
- Link Module: ML xx
- DIB™ Module: MDIB xx



Please note that the AA 801H2 is supplied with ML02 Link Modules in Output splitter socket. Minimum configuration requires 2 x Diplexer Filter Modules and 1 x Interstage Module. A jumper is factory mounted in the return path input attenuator socket and in the cable simulator socket.

Technical specifications	Unit	AE 801H2		AE 801V2
Forward path, bandwidth *(depending on diplexer modules)*	MHz		47 - 862	
Gain (8dB gain switch) - *47 / 862MHz*	dB	38/38		38/38
Attenuation by adjustable attenuator	dB		0 - 18	
Equaliser by adjustable attenuator	dB		0 - 18	
Linearity	dB		± 1	
3rd order (DIN 45004 B)	dBµV	124		127
2nd order (DIN 45004 A1)	dBµV	122		124
CTB (42 ch CENELEC) - *flat / 8dB tilt*	dBµV	108.5/111		110.5/113
CTB (42 ch CENELEC) by 6 dB interstage att. - *flat / 8dB tilt*	dBµV	108/110		110/112
CSO (42 ch CENELEC)	dBµV	112		114
Noise Figure - *47 / 862MHz*	dB	5/6.5		5/6.5
Noise Figure by 6 dB interstage att. - *47 / 862MHz*	dB	6/7		6/7
Return loss, @40MHz	dB		18 -1.5 / oct	
Return path, bandwidth *(depending on diplexer modules)*	MHz		5 - 65	
Gain	dB		23	
Attenuation by adjustable attenuator	dB		0 - 18	
Equaliser by adjustable attenuator	dB		0 - 8	
Linearity	dB		± 1	
3rd order (DIN 45004B)	dBµV		119	
2nd order (DIN 45004 A1)	dBµV		110	
Noise Figure	dB		6	

General	Unit	AE 801H2		AE 801V2
Line power, Voltage	VAC		24 - 65	
Line power, Current	mA	750 - 330		870 - 380
Mains power, Voltage	VAC		175 - 260	
Power consumption (incl. return path)	W	13.5		16
Dimensions - *W x H x D*	mm		200x180x82	
Weight	kg		2	
Line powered - *type/order no.*		AEL 801H2 / 65848		AEL 801V2 / 61931
Mains powered - *type/order no.*		AEM 801H2 / 61809		AEM 801V2 / 61930

Note: All specifications are with 0 dB link modules. If other modules are inserted, please correct for insertion loss.

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