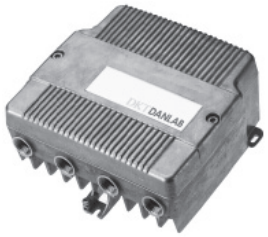
trunk and distribution amplifier



Highlights

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

Applications

- Advanced trunk and distribution in-one amplifier by interstage gain switch
- Active element in bi-directional broadband HFC networks
- For upgrading existing networks or establishing new networks
- For low density suburban areas and medium to high density buildings

Key features

- Very high output level and low power consumption
- Gain and tilt adjustment by standard attenuator pads
- On board input attenuator, equaliser and cable simulator function by pads
- On board interstage attenuator and equaliser function by pads
- Flexible input and output splitter modules
- 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)
- Upgradeable with an HMS compatible network management transponder module
- Upgradeable with a 1 tone AGC module
- Upgradeable with a DIB™ (Dynamic Ingress Blocking™) module
- 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 any terminal and 10A external AC input terminal
- Excellent surge and transient protection

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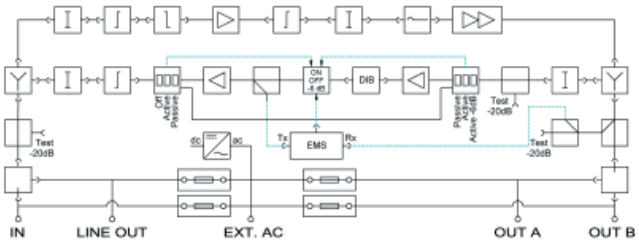
technical specifications

Accessories

Please refer to separate datasheets / pricelist

- Diplexer Filter Modules: MDA xxxx
- Splitter Module: MS xxx
- Link Modules: ML xx
- Pads: JXP-OT2xx
- AGC Module: MCA 100/xxx
- DIB™ Module: MDIB xxx



Please note that the AB 801V1 is supplied with 1 x ML01 Link Module in one interstage socket and 2 x ML02 Link Modules in Splitter sockets. Minimum configuration requires 6 x Pads and 2 x Diplexer Filter Modules. A jumper is factory mounted in the return path input attenuator socket and in the cable simulator socket.

Technical specifications	Unit	AB 801V1		
Forward path, bandwidth *(depending on diplexer modules)*	MHz		47 - 862	
Gain (8dB gain switch) - *47 / 862MHz*	dB	30/30		38/38
Attenuation by pads	dB		0 - 22	
Equaliser by pads	dB		0 - 18	
Linearity	dB		± 1	
3rd order (DIN 45004 B)	dBµV		124	
2nd order (DIN 45004 A1)	dBµV		122	
CTB (42 ch CENELEC) - *flat / 8dB tilt*	dBµV		110.5/113	
CTB (42 ch CENELEC) by 6 dB interstage att. - *flat / 8dB tilt*	dBµV		110/112	
CSO (42 ch CENELEC)	dBµV		114	
Noise Figure - *47 / 862MHz*	dB	5/6.5		5/6.5
Noise Figure by 6 dB interstage att. - *47 / 862MHz*	dB	6/8		5/7
Return loss, @40MHz	dB		18 -1.5 / oct	
Return path, bandwidth *(depending on diplexer modules)*	MHz		5 - 65	
Gain	dB		23	
Attenuation by pads	dB		0 - 18	
Equaliser by pads	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	AB 801V1		
Line power, Voltage	VAC		24 - 65	
Line power, Current	mA		900 - 390	
Mains power, Voltage	VAC		175 - 260	
Power consumption (incl. return path)	W		16.5	
Dimensions - *W x H x D*	mm		200x180x82	
Weight	kg		2	
Line powered - *type/order no.*		ABL 801V1 / 61934		
Mains powered - *type/order no.*		ABM 801V1 / 61939		

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

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