

862 MHz Medium Trunk/Distribution GaAs FET**Cool–Solid–Built to Last**

The AA 800V2 is a last active element distribution or house connection amplifier that provides an economical price to feature/functionality ratio.

Efficiency, modularity and a compact, integrated housing design assure a durable and dependable amplifier, which delivers economical daily operation of current and future HFC networks.

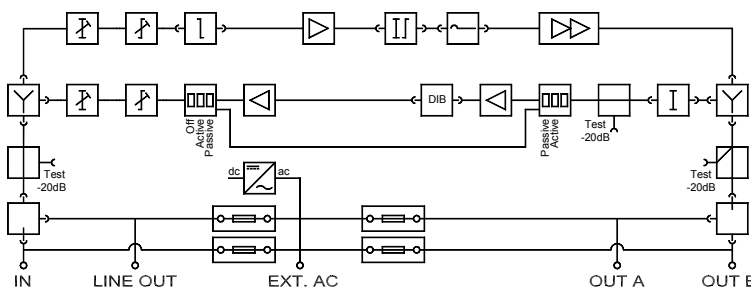
APPLICATIONS

- Trunk and distribution amplifier
- Active element in bi-directional broadband HFC networks
- For upgrading existing networks or establishing new networks
- Medium to high density buildings

KEY FEATURES

- High output level and low power consumption by GaAs FET hybrid technology
- 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)
- Power-Comm[®] compatible
- 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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Accessories:

Please refer to separate datasheets / pricelist

- Diplexer filter modules: MDA xxxx
- Splitter module: MS xxx
- Interstage module: MEX 800
- Link module: ML xx
- Pads: MPG xx

Please note that the AA 800V2 is supplied with ML01 link module in one interstage socket and ML02 link module in splitter sockets.

Minimum configuration requires 2 x splitfilters 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

AA 800V2

Forward path , bandwidth (depend on diplexer modules)		MHz		47 - 862
Gain (8dB gain switch)	47 / 862MHz	dB	30 / 30	38 / 38
Attenuation by adjustable attenuator		dB		0 - 18
Equaliser by adjustable attenuator		dB		0 - 18
Linearity		dB		± 1
3 rd order (DIN 45004 B)		dB μ V		126
2 nd order (DIN 45004 A1)		dB μ V		122
CTB (42 ch CENELEC)	flat / 8dB tilt	dB μ V		110 / 112
CTB (42 ch CENELEC) by 6 dB interstage att.	flat / 8dB tilt	dB μ V		109.5 / 111.5
CSO (42 ch CENELEC)		dB μ V		112
Noise Figure	47 / 862MHz	dB		7 / 7
Noise Figure by 6 dB interstage att.	47 / 862MHz	dB		7.5 / 7.5
Return loss, @40MHz		dB		18 -1.5 / oct
Return path , bandwidth (depend 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
3 rd order (DIN 45004B)		dB μ V		119
2 nd order (DIN 45004 A1)		dB μ V		104
Noise Figure		dB		6
General				
Line power, Voltage		VAC		24 - 65
Line power, Current		mA		800 - 300
Mains power, Voltage		VAC		207 - 243
Power consumption (incl. return path)		W		15
Dimensions	W x H x D	mm		200 x 180 x 82
Weight		kg		2.5

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

General

Line powered	(Type / Item no.)	AAL 800V2/ 22281-200
Mains powered	(Type / Item no.)	AAM 800V2/ 22381-200