

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

The AA 800H2 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

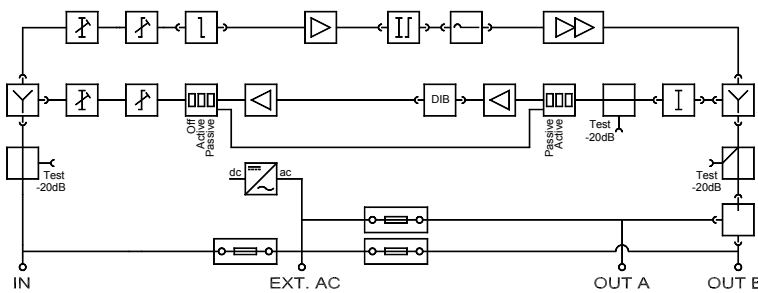
APPLICATIONS

- 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 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)
- 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 800H2 is supplied with ML01 link module in one interstage socket and ML02 link module in splitter socket.

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 800H2

| 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 | 123.5 | |
| 2 nd order (DIN 45004 A1) | | dB μ V | 120 | |
| CTB (42 ch CENELEC) | flat / 8dB tilt | dB μ V | 107 / 109 | |
| CTB (42 ch CENELEC) by 6 dB interstage att. | flat / 8dB tilt | dB μ V | 106.5 / 108.5 | |
| CSO (42 ch CENELEC) | | dB μ V | 110 | |
| 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 | 540 - 250 | |
| Mains power, Voltage | | VAC | 207 - 243 | |
| Power consumption (incl. return path) | | W | 12.5 | |
| 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 800H2/ 22280-200 |
| Mains powered | (Type / Item no.) | AAM 800H2/ 22380-200 |