



Features and Benefits:

- Supports Return Path and Forward path amplifiers.
- Optional Amplifier Gain Blocks.
- Modular design of active components - power supplies and amplifiers for easy replacement and management.
- Optional AC or DC powering configurations available.
- Bi-color front panel LED indicators for active components
- Ideal for headends, hub site, and commercial site projects.
- Reliable components
- DB-15 alarm connector

The new **HA-104** universal amplifier chassis is designed primarily for applications in modern cable television headends and hub site environments.

The chassis occupies only 1RU in standard 19" rack and includes two redundant Power Supply, control PCB and four compartments for the installation of a variety of amplifier modules in die-cast housing.

The MCU based monitoring system allows to control voltages for power supplies, voltage, as well as the current consumption of each amplifier, internal chassis temperature and current consumption of cooling fans. The systems cooling fans will turn on when the threshold temperature inside the chassis exceeds 50°C and will automatically turn them off when the monitored temperature falls below 45°C. This design solution significantly reduces noise and will extend the life cycle of the cooling fans.

In the units Normal condition, contacts of the DB-15 connector are in the closed position and reflect proper operation of active components such as power supplies and amplifiers.

Amplifier modules are offered for the Return Path (5-200MHz), Forward Path (48-1002MHz) and for an extended frequency range "X-Broadband" operating within the frequency range of 48-1218MHz. See Specifications for ARxx.200, AFxx1002 or AFxx.1218 Amplifier modules.

All amplifiers modules are housed in a universal die-cast housing which allows for easy replacement and simplified maintenance.

Powering for the **HA-104** is available in three varieties:

1. Universal AC/DC power supply / Input voltage range 94 – 240VAC, 50-60 Hz.
2. -48 VDC power supply. Input voltage range from -36VDC to -72VDC.
3. Combination of AC and DC power supplies

Please call or write to us today for any additional information

**THREE YEAR PARTS AND LABOR
WARRANTY INCLUDED**