

Modular Headend System Overview

The Modular Headend System is a combination of various components that are housed in extremely compact units which provide high performance while also optimizing space utilization. Blonder Tongue developed the revolutionary 'Micro Modular' approach in 1995. This approach was extremely unique at the time and has now become a standard for headends in the hospitality, multi-dwelling and private cable industries. In 2000, Blonder Tongue introduced the 'Die-Cast Chassis' and several vendors have copied this advancement reinforcing Blonder Tongue as the industry leader in modular headend products.

Today, Blonder Tongue's Modular Headend System consists of a large family of products in the HE Series with several new introductions just released in the last year. The HE Series includes a fixed channel modulator with integrated stereo capability, an economical agile modulator that delivers superior performance, as well as a high-end agile modulator with integrated stereo capability.

Each system begins with a rack chassis, either a horizontal 4-slot or a vertical 12-slot. The available slots can then be populated with a variety of modular components, including a channelised audio/video modulators (MICM), agile demodulators (MIDM), agile micro modulators (AMCM & AMM), sub-band block converter (MSBC), micro stereo encoder (MISE), as well as digital products like the digital high-definition processor (DHDP) and the Agile QAM Modulator (AQM). These modules are designed to work together to create a complete system of modular headend products.

Although many vendors have imitated the modular approach and advances made by Blonder Tongue over the years, there is a difference among products and vendors and you should not be fooled.

Superior Quality

- Every Blonder Tongue modular unit is tested to meet or exceed all minimum specifications
- Units are designed to ensure a long operating lifetime and backed by an extensive 3 year warranty
- Complete adherence with all FCC requirements and specifications

Advanced Design

- Die-Cast chassis provides superior RFI shielding and protection
- Front panel controls and indicators make balancing and maintenance easy
- The rack chassis units are Listed by UL and the modular components are Recognised and Listed when used as a system

Modular Headend System Components



AMCM-860S

AMCM-860

AMM



MICM

MISE

MSBC

Digital High Definition Processor Series



MIDM

Downconverter

Upconverter

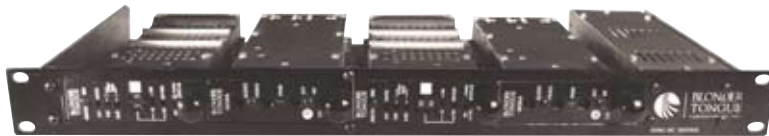


AQM

Modular Headend System

Rack Chassis and Power Supplies

4 Slot Vertical Chassis

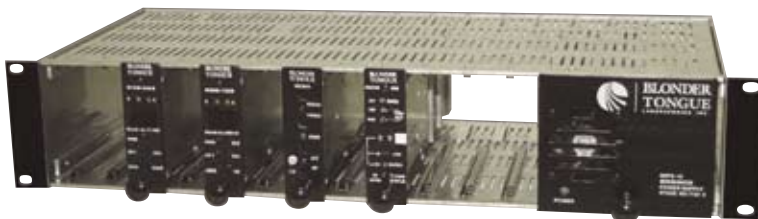


MIRC-4D



MIPS-12C

12 Slot Horizontal Chassis



MIRC-12V

○ Specifications

General

Power Requirements: 100VAC to 240VAC, $\pm 10\%$
Frequency: 50 to 60 Hz
Temperature Range: 0° to +50° C
Output: +5VDC @5.5 Amps, +12VDC @4 Amps

Mechanical

Dimensions (WxHxD) : 11 x 9 x 19mm
Weight: 0.50 kg
Connectors/Impedance
AC Input: IEC
DC Output: 37 pin D

Indicators

Power I ON: LED, green
Accessories Supplied
AC Power Cable: 6 Ft, IEC, USA

Surveillance Application

The MIRC-4CUBE is extremely well suited for use in surveillance or security type applications. A video camera's baseband video output can be modulated to any cable television channel and combined with existing TV signals to permit any outlet to monitor the camera feeds. This compact chassis can support up to 4 fixed channel or agile modulators and can be mounted in practically any location. The use of Blonder Tongue high performance modulators easily permits placing camera signals on adjacent channels.

○ Specifications

General

Power Requirements: 100VAC to 240VAC
Frequency: 50 to 60 Hz
Temperature Range: 0° to +50°
Output Voltage & Current Capacity:
+12VDC @ 1.8 Amps
+ 5VDC @ 1.8 Amps



MIRC-4CUBE

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