



# ATSC/QAM Demodulator

## Description

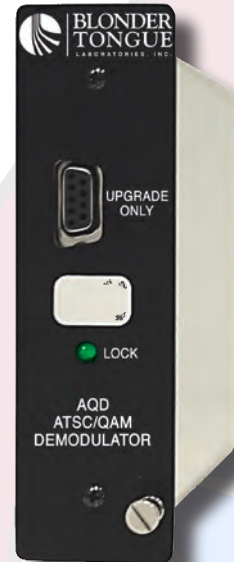
The Blonder Tongue ATSC/QAM Demodulator is a modular unit that allows the reception and demodulation of an Off-Air High Definition signal for analog-based delivery.

The unit is designed to lock to an Off-Air HD or QAM Annex B digital signal and provide a NTSC video and audio output.

This allows for an easy interface with existing Blonder Tongue analog modulators. The ATSC/QAM Demodulator is housed in a 3 RU Module that allows for 8 units to be inserted in a chassis with a common power supply & control unit.

## Key Features

- Converts ATSC or QAM Digital Signals to NTSC Analog Signals
- 8VSB, QAM 64 & 254 (Annex B)
- Transport Streams Supported
- Decodes all 18 ATSC Video Formats
- Remote Control Capability via Internet or RS-232
- Microprocessor Controlled
- Stereo Audio



**AQD: ATSC/QAM Demodulator**  
**AQD-PCM: Power Supply**  
**QTRC: Chassis**

[www.multicominc.com](http://www.multicominc.com)

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# AQD

## ATSC/QAM Demodulator



The ATSC/QAM Demodulator is housed in a 3 RU Module that allows for 8 units to be inserted in a chassis with a common power & control unit. The power and control unit features a 2 line by 16 character liquid crystal display (LCD) to allow interaction with the easy to follow user menu functions for simple programming. The entire rack can also be optionally remotely controlled via an RS-232 modem or the Blonder Tongue HWS.

The AQD provides the operator with a NTSC composite video via an F connector and audio via left/right RCA connectors. This is designed to function seamlessly with Blonder Tongue analog modulators to allow the delivery of the desired digital signals in any analog channel. The unit supports decoding all 18 ATSC (Advanced Television Systems Committee) standard formats including 8VSB, annex B QAM64 & QAM 256. Video is displayed in 480i (NTSC) in 4:3 or 16:9 formats with closed captioning decoding supported as well.

### ○ Features & Benefits

- 8VSB, QAM 64 & QAM 256 (Annex B) Transport Streams Supported
- Modular & Compact Units Permit High Density  
8 Modules in 3 Rack Height
- Variable Video Decoding Rates – 2 Mb/s to 47 Mb/s
- Easy Set-up & Configuration via Front Panel LCD Controls
- Remote Computer Control Capability via Internet or RS-232
- Decodes all 18 ATSC Video Formats

### ○ Specifications

#### Input — 8VSB Mode

Tuning Range:  
UHF 14-69, VHF 2-13 or CATV 2-135  
Data Rate: 19.392 Mbps  
Input Level: -20 to +20 dBmV  
Modulation Type: 8VSB ATSC Compliant  
Input Connector: 75 Ohm "F" Female  
Return Loss: 6 dB

#### Input — QAM Mode

Tuning Range: CATV 2-135  
Data Rate:  
QAM 64 Annex B: 26.9 Mbps, Auto Detection  
QAM 256 Annex B: 38.8 Mbps, Auto Detection  
Input Level: -20 to +20 dBmV  
Input Connector: 75 Ohm "F" Female

#### Output — NTSC Composite Video

Output Level: 1 Vp-p  
Video Aspect Ratio: 4:3, 16:9 (Pan and SCAN)  
Closed Captioning: EIA-608  
Video Format: 480i NTSC

#### Output — Analog Audio

Audio Level: 1 Vrms  
Audio Control: Adjustable in 2 dB steps  
Connectors: RCA left/right

#### General

Power: 115 VAC  
Operating Temperature Range: 0° to +50° C  
Storage Temperature Range: -25° to +70° C  
Humidity: 0 to 95% RH

#### Mechanical

Module Dimensions: 10.625 x 5.25 x 1.5 Inches  
Chassis Dimensions: 5.25 x 19 x 12 Inches  
Mounting: Standard 3 EIA Unit Height – 5.25" x 19"  
Module Weight: 1.8 lbs.  
Fully Loaded Weight: 28 lbs.  
LCD: 2 line x 16 character display  
Switches: 5 push button navigation switches  
Computer Control:  
Optional Remote Control via BT HWS  
or RS-232 modem

### ○ Ordering Information

Stock No.	Model	Description
6245	AQD	ATSC/QAM Demodulator – Module
6246	AQD-PCM	ATSC/QAM Demodulator – Power Supply
6233	AQD-CH	ATSC/QAM Demodulator – Chassis

Available through

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