

*“In today’s fast-paced, market, Digital television is a new way to broadcast the future. Digital Set Top Boxes have become a key component allowing people to access many services offered by the cable operator”*

## Modulators

### IP QAM Modulator AD-3660/B/24

The AD-3660/B/24 IP QAM Modulator converts TCP/IP multicast/unicast input data streams into Radio Frequency (RF) signals. The AD-3660/B/24 supports multiple simultaneous independent 8MHz and 6MHz bandwidth modulations. The converted RF signals are mixed with other relevant analog signals or QAM signals for network distribution.

The signal includes MPEG-2/4 streams, digital broadcast, VOD, and other digital signals such as video conference, Internet and IP phone communications. The AD-3660/B/24 IP QAM modulator can be agile-frequency configured by the operator under HFC, MMDS or broadband digital system and brings modern digital services to customers in remote areas.

#### Features

- Supports a large buffer memory design which improves code stream uniformity and reliability
- Multiple simultaneous independent or multiplexed frequency signal outputs
- DVB-C standards compliant
- Gigabit Ethernet stream input interfaces
- FEC functions can correct multiple input streams efficiently and accurately
- Modular design for RF frequency output Multicast and Unicast input stream support
- PSI/SI information tables parse, modification, replacement, and retransmission
- On-screen and front panel failure and warning alarm notification.
- Support for over 44 frequency NIT mapping and transmission
- Self-adapting filtering circuit design to maximize reliability and availability ITU-T J.83A and B standards compliant
- -20dB monitoring interface with IF output
- LCD display
- Null data input filtering and stuffing data output stuffing
- Auto-identification of 188/204 packet data TCP/IP
- Ethernet interface for remote maintenance, configuration, and monitoring
- Non-volatile configuration memory
- 8 PID filtering and re-mapping
- Real-time monitoring and display of current and pre-configured stream bitrate
- IP QAM (Twenty four Outputs)

WE IDENTIFY THE BEST TECHNOLOGIES TO FIT YOUR GOALS AND BUDGET. WE THEN ENSURE THOSE TECHNOLOGIES CONTINUE TO WORK WELL INTO THE FUTURE.

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### IP QAM Modulator AD-3660/B/24

## Technical specification

### QAM modulator

Constellation: 64QAM to 256QAM  
Symbol ratio: 1-7MbaudS  
Encode: RS encode  
MER:  $\geq 36$ dB  
Data rate: 56Mbps

### Input Data Interface

Network interface: RJ-45 TCP/IP Gigabit Ethernet

### Intermediate Frequency (IF)

IF output format: optional  
IF output: 35.25/36.15/36.65/44MHz  
Output level: 100dBuV  
Impedance: 50 $\Omega$

### Radio Frequency output specification

Frequency range: 48-860MHz  
Output level: 50-60 dBmV  
Phase noise:  $>95$ dBc@10KHz  
Impedance: 75 $\Omega$

### Monitoring Interface

Network interface: RJ-45 TCP/IP Ethernet

### Physical characteristics

Dimension: 44.5mm (1U)\*483mm\*(19")\*400mm  
Weight: 4kg

### Power supply

AC100-220V+10 - 50/60Hz -20W

### Working Temperature

Operation: 0 – 40C°  
Storage: -20 - 80 C°

