

*“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”*

## **MODULATOR/MULTIPLEXER/SCRAMBLER**

### **Multifunction IP QAM Modulator AD-3650/DP/2**

AD-3650/DP/2 supports module authorization management system, by which the number of modulating channels and CAS channels can be added/deleted anytime by software. The products also supports web-based management and SNMP, which makes it possible for remote online control and monitoring.

Due to its versatilities, AD-3650/DP/2 can be applied to different places upon customers’ needs, such as cable DTV head-end, sub head-end, or broadcasting center. This product series is designed for fulfilling customized needs of various DTV head-ends with its capability of providing multiple functions in one unit.

#### **Features**

- Flexible configurations with module authorization management system
- Changeable input/output interfaces by swithing the daughter boards
- Complied with ITU- T J.83 Annex A, B, C
- Support UDP/ARP/ICMP/IGMP protocols
- Support TS over IP, multiplexing, scrambling, PSI/SI processing, mudulation, and up-converting
- Up to 4 CAS simul-crypt
- QAM Mode: 16/32/64/128/256
- QAM output frequency range: 30~860MHz
- Support MPTS
- Up to 64 programs for each modulating channel
- Capable of processing 128 PIDs for a single program
- Support HD/SD program
- Web-based management for online remote upgrade and control
- SNMP for online remote monitoring
- Power failiure memory recovery

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

## MODULATOR/MULTIPLEXER/SCRAMBLER

Multifunction IP QAM Modulator AD-3650/DP/2

### Technical specification

#### ASI Interface

Physical Type: BNC-Female  
Impedance: 75Ω  
Data Format: 188-byte TS packet

#### E3/DS3 Interface

Physical Type: BNC-Female  
Impedance: 75Ω  
Bandwidth: E3: 34.368 Mbps, DS3: 44.736 Mbps

#### RF Output Interface

Physical Type: F-Female  
Impedance: 75Ω  
Number of Interface: 1  
Output Frequency Range: 30 ~ 860MHz  
QAM Mode: 16/32/64/128/256QAM  
Standard: EN300 429

#### Environment

Working Temperature Range: 5°C ~ 45°C  
Storage Temperature Range: -25°C ~ 85°C  
Humidity Range: 10% ~ 90%

#### Management

Physical Type: Ethernet 10/100 Base-T  
Port: RJ-45  
Protocol: HTTP, SNMP

#### Physical

Size (W x H x D): 483mm x 44mm x 450mm  
Weight: <5 Kg

#### Multiplexing & Scrambling

Multiplexing: Auto-generation/manual insert of  
PSI/SI tables Smart search of programs Up to 512  
multiplexed programs  
Scrambling: Program-level scrambling 4 CAS  
simul-crypt Up to 256 scrambled programs  
EMM Bandwidth: 3Mbps  
Date Rate Statistics: Real-time statistics for TS,  
program, PID

#### ASI Input Interface

Number of Interface: 8

#### IP Input Interface

Physical Type: RJ45-Gigabit Ethernet  
Bandwidth: 1000Mbps  
Protocol: UDP  
Number of Interface: 1

#### ASI Output Interface

Number of Interface: 2

