# HP3944D 4×DVB-S2 to 4×QAM Trans-modulator with CI



## Overview

HP3944D 4×DVB-S2 to 4×QAM Trans-modulator support 4×DVB-S/S2 (QPSK/8PSK) transponders and ASI input, then multiplex and scramble the input signal to output selected programs through 4×QAM RF channels. It has 4×CI interfaces and supports multi-type of CAM cards. It suits 1U rack and can be configured by front panel LCD and NMS (network management software). Its high-integrated and cost-effective design makes it widely used in varieties of digital broadcasting distribution systems.

## Features

◆ 4×DVB-S/S2 tuner input with 4 CI slot, 1×ASI input

◆ Input frequency: 950~2150 MHz

◆ Input symbol rate: 1~45 Msps

◆ 4×QAM RF output

◆ Output frequency: 47~870 MHz

◆ Output symbol rate: 5~9 Msps

◆ Support 4×CAS/SMS

◆ Common interface with 4 slots (PCMCIA) supports multi-type of CAM cards

◆ LCD/Keyboard control by front panel and network management by Ethernet

# Technical Specification

| | | |
|---|---|---|
| **Input** | **RF** | 4×tuner (DVB-S/S2) |
| | **Frequency Range** | 950~2150 MHz |
| | **Symbol Rate** | 1~45 Msps |
| | **ASI** | DVB standard, BNC interface |
| **Output** | **Interface** | F-head |
| | **Impedance** | 75Ω |
| | **Frequency Range** | 47~870Mhz, 1Khz step |
| | **Constellation** | 16, 32, 64, 128, 256 QAM |
| | **Standard** | EN300429/ITU-T J.83A |
| | **Symbol Rate** | 5.0~9.0Msps, 1ksps step |
| | **Error-Correcting Codes** | RS code188/204 |
| | **MER** | ≥40dB |
| | **BER** | 0 |
| | **Output Level** | 90~110dBuV |
| | **Level Attenuation Range** | -20dBm~0dBm (per carrier), 0.5dB step |
| | **Scrambler** | support 4×CAS/SMS; head-end implementation of DVB simulcrypt (ETSI TS 103 197 V1.4.1) |
| **Control** | | LCD/Keyboard, network management |
| | | Ethernet software upgrade |
| **General Features** | **Size** | 482mm×410mm×44mm |
| | **Temperature Range** | 0~45°C (Operation); -20~80°C (Storage) |
| | **Power** | 100-240VAC, 50Hz, 25W |