abe®

ADVANCED
BROADCASTING
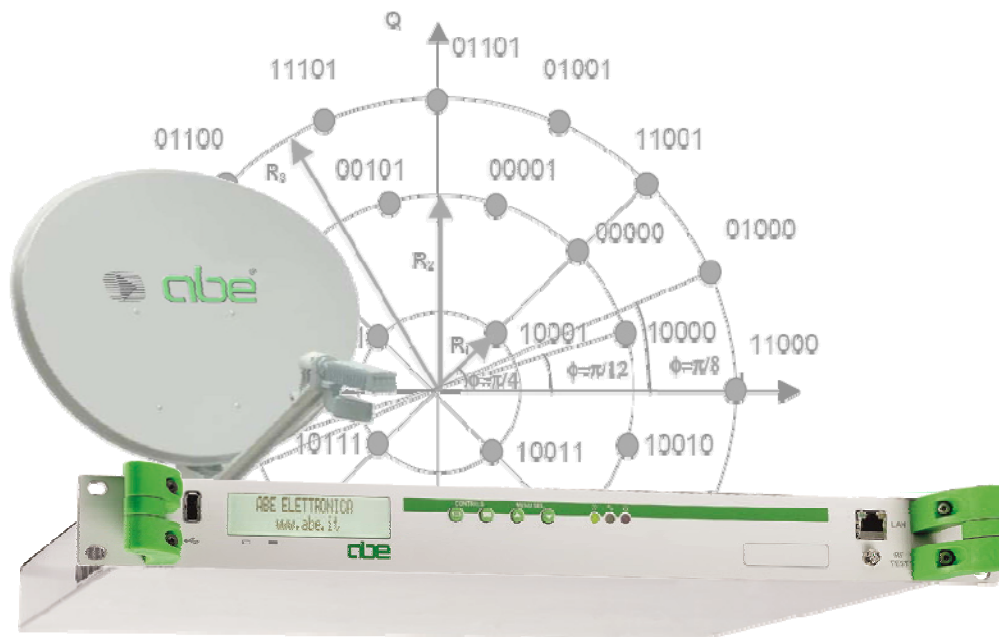ELECTRONICS

Series

DME

MPEG ENCODERS (SD/HD) + DVB-S/DSNG/S2 MODULATOR

FOR SATELLITE UPLINK & MW LINK APPLICATIONS

The high quality, professional and cost-effective solution

DVB-S
DVB-DSNG
DVB-S2

DVB®
Digital Video
Broadcasting

The "DME" is a high quality, professional, flexible and truly cost-effective solution for digital satellite uplinks and terrestrial microwave links.

The unit consists of a high performance **DVB-S/DSNG/S2** Multistandard modulator with up to four MPEG-2 and/or MPEG-4 (H.264/AVC SD/HD) Encoders in a single 1U rack chassis.

The DVB-S2 modulation supported complies with **ETSI EN 302 307 (DVB-S2 standard)** for BROADCAST and DSNG applications: includes all modulation schemes (QPSK, 8PSK, 16APSK and 32APSK), all code rates (both mandatory and optional), CCM (Constant Coding and Modulation), normal FEC frame, Dummy frame Insertion, all roll-off factors and null packet deletion/insertion.

A key function of the modulator is the **digital non-linear pre-correction** with the possibility to store and recall of several setups. This function allows to correct the amplitude and phase vs. level distortions introduced by the high power amplifiers (HPAs), so increasing output power, MER and shoulders performances.

Features also include a 10MHz reference clock and the power supply for the BUC (Block Up Converter).

The DME series, combined with a BUC and a parabolic antenna for the chosen frequency range (usually Ku band - 14 to 14.5GHz - or C band 5.85 to 6.43GHz), makes a complete satellite uplink solution.

Another application of the DME is as encoder/s - digital modulator for agile terrestrial digital microwave links.

Applications:

- Digital satellite Uplinks for Distribution, Contribution, DSNG / ENG Mobile news gathering;
- Digital Microwave Links (Mobile and STL);

Features:

- Up to 4 real time MPEG-2 (MP@ML – 4:2:0) and/or MPEG-4 (H.264/AVC SD/HD) video/dual audio Encoders;
- Second audio pair option;
- User configurable Encoders settings + easy to recall pre-defined factory settings;
- Teletext of Closed Captioning extraction from video input and reinsertion in the Transport Stream;
- Basic T.S. multiplexing functions embedded in MPEG-2 and MPEG-4 encoders;
- DVB-S / DSNG / S2 Modulator having "L" band or 70MHz output for Broadcast and DSNG applications;
- Multistream option, with the possibility of transmitting up to 6 different Transport Stream simultaneously;
- ASI and Ethernet (T.S. over IP) input interface options;
- User-friendly local control with front panel LCD display and keypad;
- Ethernet 10/100 Base-T (RJ45 connector - SNMP, web server, e-mail client) remote control interface;
- Stand-Alone unit 1U high.