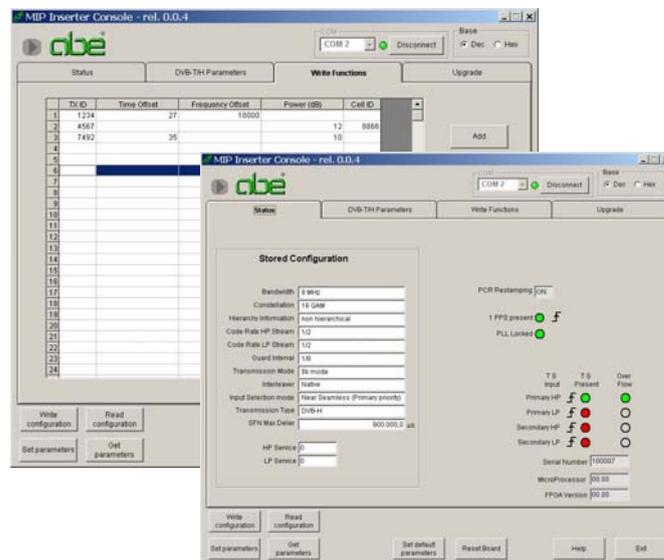


MIP INSERTER (SFN ADAPTER)

The high quality, professional and cost-effective solution



The **MIP 1000** is a high quality, professional, flexible and cost-effective solution to insert the MIP (Megaframe Initialization Packet) and adapt the Transport Stream for SFN (Single Frequency Network) according to DVB-T/H standard.

The MIP 1000 has to be installed in the head-end of the Network before the distribution (backhauling) to the transmitters (that must be transparent); it provides the information needed for the synchronization of the network to the same frequency and the transmitter settings data.

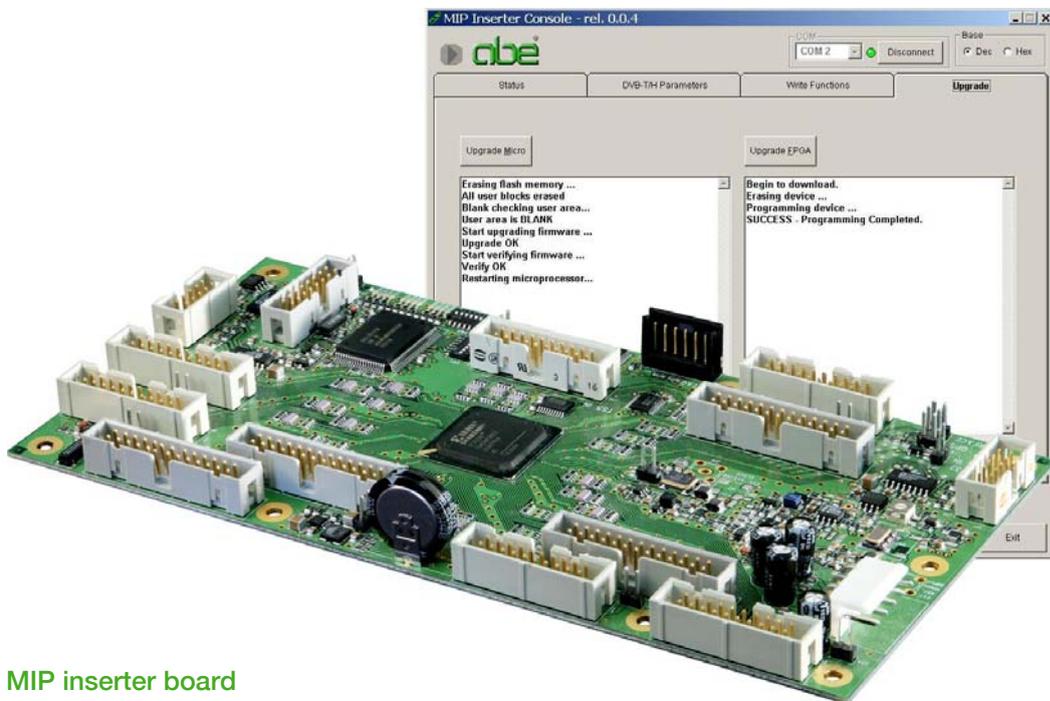
Features

- All DVB-T/H modes and bandwidth supported;
- Compliant to **TS 101 191**;
- Hierarchical mode supported as option (double Transport Stream – double MIP insertion);
- MIP functions supported;
- Automatic bit rate adaptation of the incoming Transport Stream;
- PCR time restamping;
- GPS locked hi stability reference oscillator option available (10MHz + 1pps);
- Automatic near seamless switching to secondary inputs (option).



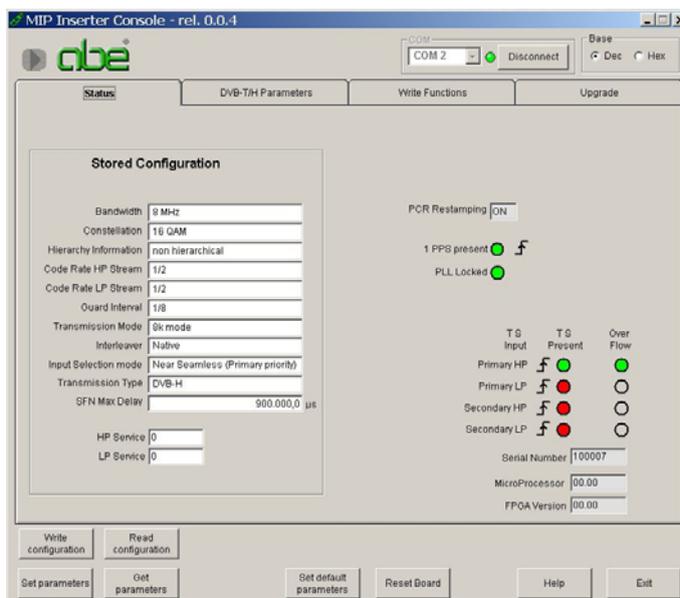
MIP INSERTER SPECIFICATIONS:

Inputs:	Up to 4 ASI (BNC female 75Ω)
MIP insertion:	According to TS 101 191
Input transport stream adaptation:	PCR time restamping + Bit rate adaptation (null packets deletion/insertion)
Synchronization inputs:	1ppS (5V – TTL level) + 10MHz Option: GPS locked Hi stability reference oscillator
Outputs:	Up to 2 double ASI (BNC female 75Ω)
Hierarchical mode:	Supported; option for double MIP insertion (high and low priority streams)



MIP inserter board

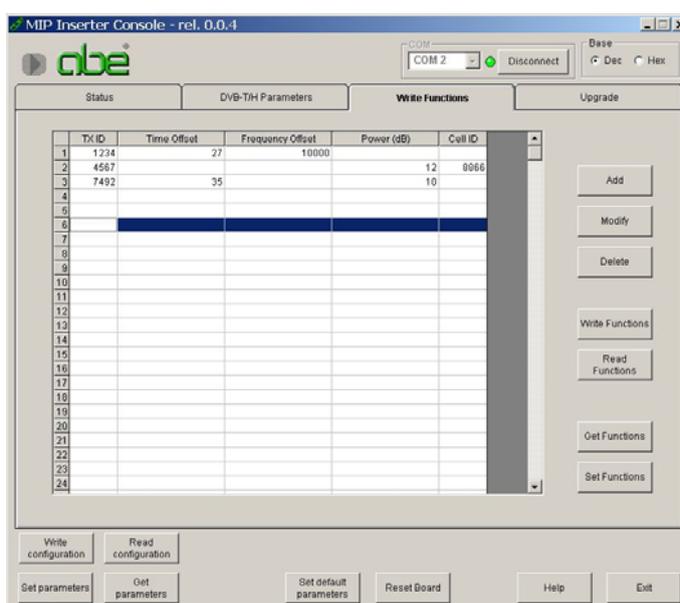
A screenshot of the MIP inserter configuration software



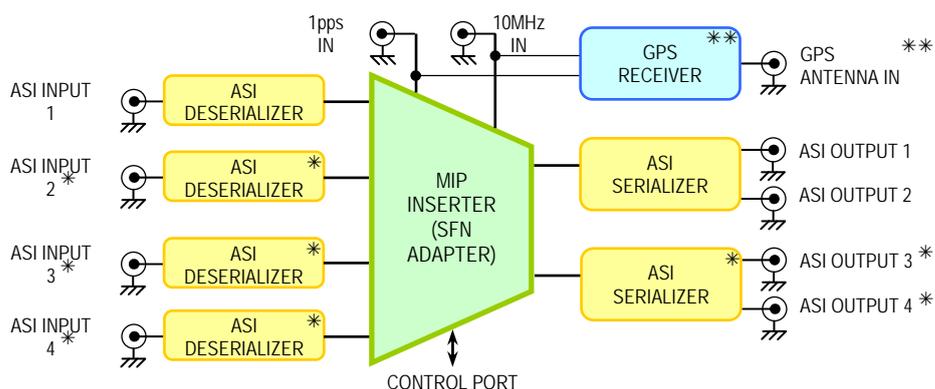
GENERAL CHARACTERISTICS

Power supply:	220Vac ± 10% 50/60 Hz (Different power supplies and tolerances available on request)
Remote control interface options:	RS485; RS232; Ethernet 10/100 Base-T (SNMP and web server support)
Housing:	Rack drawer 19" 1U or 2U according to the options installed
Operating temperature range:	0 to 45° C.

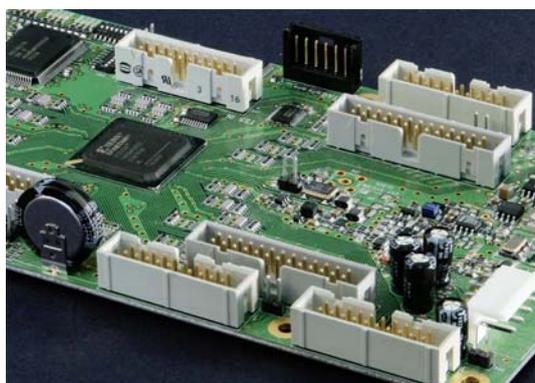
A screenshot of the MIP inserter configuration software



MIP 1000 Block Diagram



* OPTION FOR HIERARCHICAL OPERATION AND FOR AUTOMATIC NEAR SEAMLESS SWITCHING TO SECONDARY INPUTS
 ** INTERNAL GPS RECEIVER OPTION



AVAILABLE MAIN OPTIONS:

- GPS locked hi stability reference oscillator (10MHz + 1pps);
- 2nd INPUT + OUTPUT for hierarchical operation;
- Secondary input(s) with near seamless switching.



All specifications contained in this document may be changed without prior notice.