AT2900USB

DVB-S2/S Modulator & UHF Up-converter

Standard Features:

- QPSK Modulator and UHF Up-converter, supports DVB-S2 & DVB-S.
- High Speed USB 2.0
- Windows 2000, XP Drivers & API.
- Accompanied by DVSStation2 Alitronika's Application Software.
- Supports DVB According to Standard A1010 Rev1 and EN50083.
- Modulation of Transport Stream files from Harddisk.
- Modulation of Transport Stream from the ASI or SPI inputs.
- All modulation processes are carried out by the hardware so that there is no load on the PC processor, So there is no need for an expensive high performance PC.
- FEC Code Rates: 1/2, 2/3, 3/4, 5/6, 7/8.
- Bit rates from 48.382 MB/s.
- Supports Burst or continuous modes, 188 and 204 packet sizes.
- RF & IF Section are in metal enclosure to noise immunity and high performance

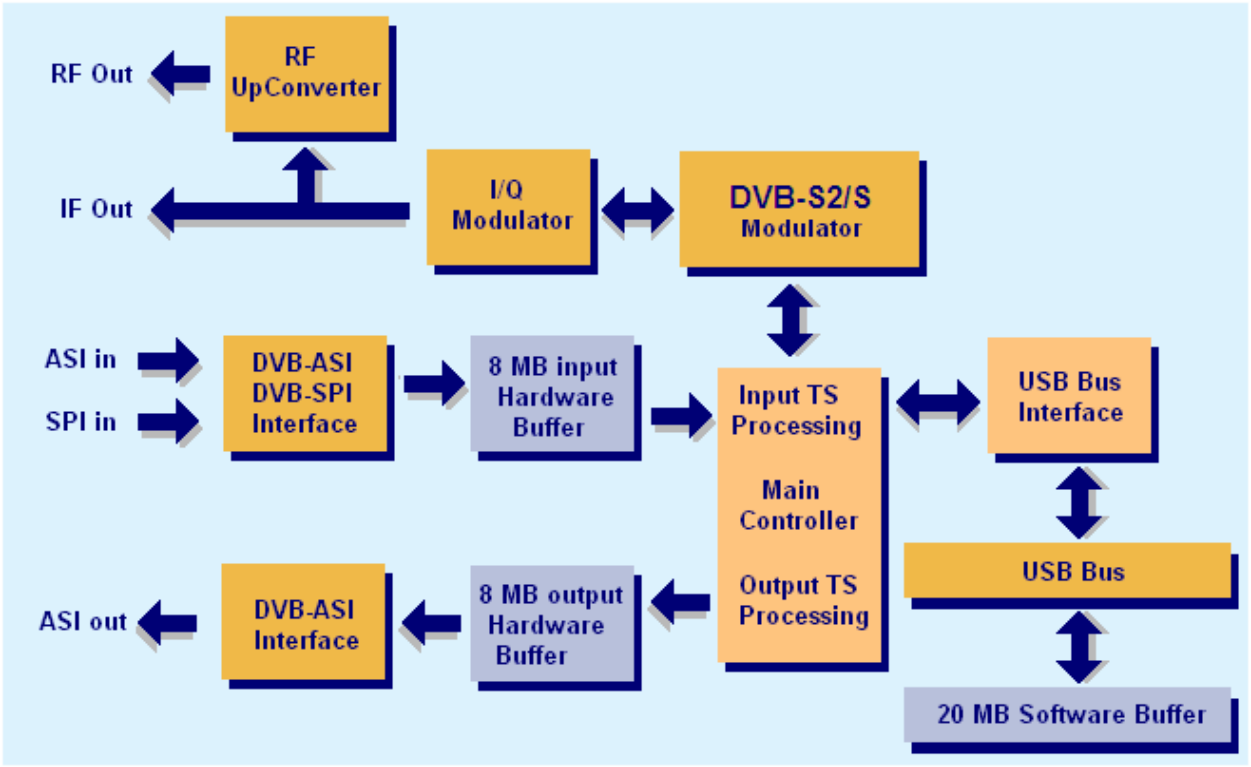
Input

- DVB-ASI input.
- DVB-SPI input.

Output

- RF Output.
- IF Outputs (one internally, SMB connector, to be used inside the PC to connect to other boards).
- DVB-ASI output for monitoring the modulated TS file.

Block Diagram:



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Applications:

Targeted for Digital Video Professionals, Sophisticated End Users and OEMs the AT2900USB is an ideal solution for a number of applications such as:

- Development Tools for DVB-S2/S Receiver R&D.
- IP to DVB Gateway.
- DVB-S Transport Stream Generation.
- Stand alone QPSK signal generator for Test & Validation.
- Demonstration and Trade Shows.
- DVB-S2/S output for OEM product.

Specifications:

- On Board Buffer:16 Mbytes.
- IF Connector:75 Ohms.
- IF Output Frequency:49-51 MHz or 99-101MHz adjustable in 1Hz steps.
- RF Connector:75 Ohms F-Type.
- RF Output Frequency Range:950MHz to 2150MHz.
- RF Output Power over bandwidth: +2dBm to -35dBm, adjustable in 0.5dB steps.
- DVB modes: DVB-S and DVB-S2.
- Alpha rolloff: 0.20, 0.25 and 0.35
- Modulation Modes: QPSK, 8SPK, 16APSK, 32APSK.
- FEC Code Rates: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9 and 9/10.
- DVB-ASI Input/Output Connectors:75 Ohms BNC.
- DVB-ASI Output Signal level:1.0Vp-p nominal.
- DVB-ASI Output Clock: 270 MHz.
- DVB-ASI Input return loss: 15dB.
- DVB-SPI Connector: 25-pin sub-D.
- DVB-SPI Input Level: LVDS.

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