

Functionality

TC10-8S2 is an ASI/IP adapter, which can receive and demodulate eight channels of DVB-S/S2 RF input signals, then encapsulate the demodulated transport streams into UDP packets by SPTS/MPTS mode and transmit the signal through Gigabit Ethernet output interfaces, and also can select two streams to transmit through ASI interface. The device supports web-based management and online remote upgrade. TC10-8S2 can be used at head-end equipment rooms or capturing/editing/broadcasting center of cable TV stations.

TC10-8S2 е конвертор от DVB-S/S2 RF към ASI и IP с 8 вградени тунера, за приемане на 8 сателитни транспондера и последващото им демододулиране и енкапсулиране на тези транспортни потоци в IP/UDP пакети, които се предават в режими SPTS/MPTS през Gigabit Ethernet изходен интерфейс. Едновременно може да се изберат два от входните потоци да се предават през ASI изход. Устройството се управлява отдалечено с web-базиран мениджмънт и допуска отдалечено обновяване на софтуера. Подходящо е за фронт приемник за всякакви главни станции. При режим SPTS допуска пропускане на специфични, конкретно указани елементарни потоци (PID-ове), максимално 512 броя. В този режим допуска всяка входна програма да се предава в отделен мултикаст (с различен IP адрес и/или порт), като общата скорост на изходния поток може да достига до 800Mbps. Практически изпълнява функция на IP streamer. Разполага с анализатор на входните потоци, като анализира всички системни таблици и показва скоростите на елементарните потоци (компоненти на програмите) в реално време.

Key Features

This product has the following key features:

- Support eight independent RF inputs, one TS-over-IP output and two ASI outputs

- 1 channel of 1Gbps IP output

- Support 2 RF signals output via one ASI port

- Support SPTS/MPTS mode

- In SPTS mode, it supports pass-through function for special PID, each output TS can be configured to 8, and the total outputs can be up to 512

- IP output data rate range: 1 ~ 800Mbps

- Support ASI and GbE (UDP, 7x188byte) outputs in MPTS/SPTS modes

- Support WEB-based management

- Language support: Chinese and English

- Adopt 1U standard chassis, with elaborate design and elegant appearance

- Power failure memory recovery

- Support device configuration import/export

- Support online remote upgrade

* Please refer to Annex A for detailed technical specifications.

Front Panel

As shown in figure 1, there are one LCD display, one 6-key keypad and three LED indicators on the front panel of TC10-8S2.

The model type and logo notification information will be displayed on the LCD screen during the device initialization stage. User can check part of the working status of device, and set part of the parameters of TC10-8S2 by exploring a menu realized by buttons/LCD screen after system initialization, see section §3.3 for details.

The POWER LED will be light if the device powers on successfully.

The STATUS LED will show some working status of the device, see section §3.3 for details.

The ALARM LED will indicate warning messages of the device, if exists, see section §3.3 for details.



Fig.1 Front Panel View of TC10-8S2

Rear Panel

As shown in figure 2, the rear panel of TC10-8S2 consists of one power supply connector, one power switch, one management port, eight RF input ports, one eight IP output ports, and a grounding point.

Power Input Port: To connect to 100~240V 50/60Hz AC input;

Power Switch: To turn TC10-8S2 on or off;

Management Port: RJ45 interface, to connect to management server via 100BaseT or Gigabit Ethernet;

RF Input Port: F10-75J connector, to connect to satellite and microwave signals of LNB/MMDS down converter;

Data Output Port: RJ45 interface, to connect to data destination equipments of TC10-8S2;

Grounding Point: To connect the device with conductive earth. Please make sure of proper grounding of the device before start operating it for the safety of the operators and the device itself!



Fig.2 Rear Panel View of TC10-8S2

Typical Application Architecture

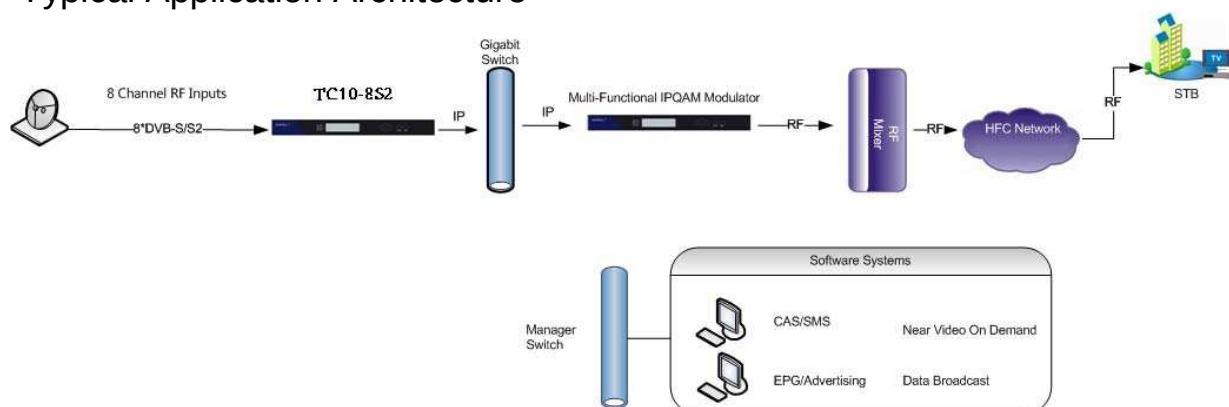


Fig.3 System Application Block Diagram of TC10-8S2