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Communication Systems Ltd.

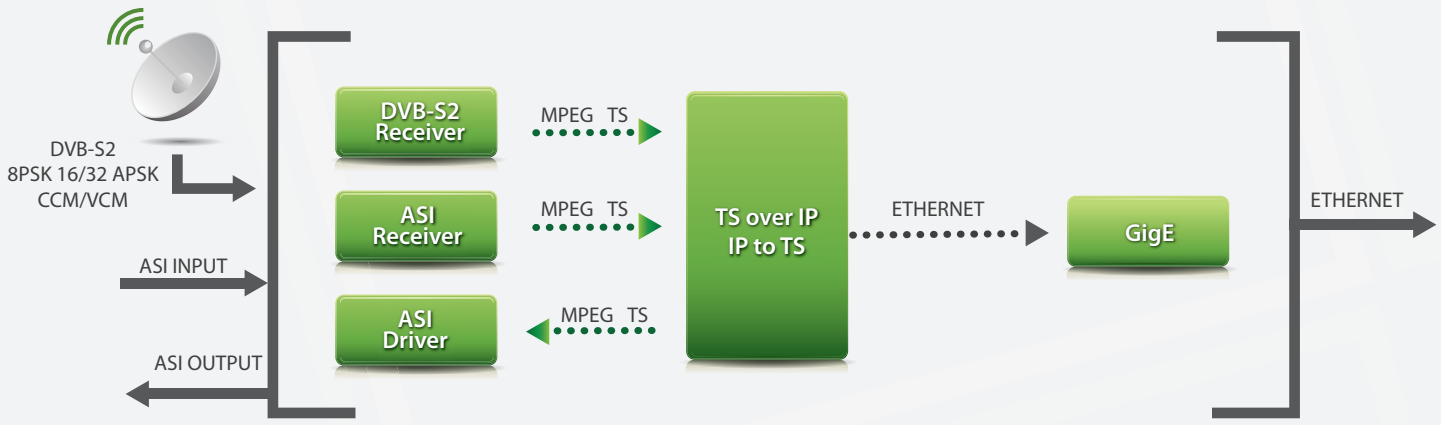
TC1 - Transport Stream Converter With DVB-S2 / ASI and GigE Interfaces

TC1 provides Digital TV operators a cost effective media conversion for MPEG transport stream. With its ASI input, ASI output, GigE interface and DVB-S2 receiver the TC1 address variety of topologies. TC1 is ideal for installations where TS processing is in place and physical conversion is required

TC1 Product Highlights

- Converts transport stream between DVB-S2, ASI and IP
- GigE interface to support Transport stream bit rates
- Configurable Ethernet fields – VLAN, DSCP, MAC and IP address, etc.
- Independent ASI input / ASI output interface.
- Concurrent conversion of different streams to different medias
- Professional DVB-S2 receiver supporting, VCM, 16/32 APSK *
- Supports MPEG over IP – Pro-PMPEG and RFC2250 *
- Local IP interface for management.
- Competitive price

TC1 Block Diagram



* - Optional

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Enhanced Features

Focus on Media conversion – TC1's unique architecture focuses on Conversion of TS to and from IP.

Variable Code Modulation – The Advanced DVB-S2 receiver of the TC1 supports DVB-S2 VCM, allowing operators optimization of video distribution

Dual-carrier Receive Feature – FTC1's dual tuners allows concurrent reception and conversion of two transport streams form two independent sources

Wire-speed – TC1 handles Transport streams traffic in hardware, eliminating any packet loose or jitter.

GigE – Provides gigabit Ethernet as a standard feature

Flexible Management Interface – Provides an independent 100baseT management interface supporting CLI, Telnet, and SNMP

Highly Competitive Pricing – Ayecka's TC1 offers advanced technology at more than 50% less than other similar devices on the market

Applications

TC1 provides cost effective solutions in many areas of digital TV, where conversion between ASI / DVB-S2 and IP is required.
The small form factor, simplicity of configuration, ease of operation and competitive cost, makes the TC1 the optimal solution for media conversion.

IPTV - TC1 is an optimal solution for receiving free to air signals from satellite and ingest them into the digital IPTV network. The TC1 GigE interface handles full transponder bit rate, free of the limitations of 100BaseT

Legacy ASI networks - TC1 offers scalable and modular solution for conversion of legacy ASI into IP. In many networks the legacy ASI co-exists with the IP and a solution to interconnect them is needed. As the networks migrate to IP, it is clear that these interconnect are temporarily. The low cost of the TC1 make this implementation cost effective

Transport stream monitoring - Combined with the MCM9000 the TC1 offers complete monitoring and mosaic solution for off the air and ASI multiplexes. For more information please contact info@ayecka.com.

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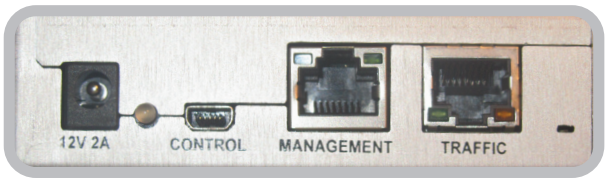
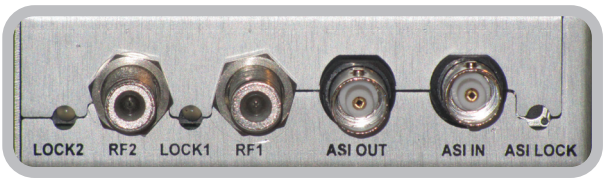
TC1 Panels



Front View



Back View

Receiver DVB-S2 mode

Modulation	QPSK, 8PSK, 16APSK, 32APSK
Channel Rate	up to 120 Mbps
Roll-off factors	0.2, 0.25, 0.35
Coding	LDPC and BCH decoder as for DVB-S2 requirements
Code Rates	½, 3/5, 2/3, ¾, 4/5, 5/6, 8/9, 9/10
Framing	DVB-S2 framing
MODES	CCM, VCM, VCM *
Input Freq	950-2150MHz
Signal Level	-35 to -75 dBm
Symbol Rates	400Ksps to 45 Msps (Low SR require PLL LNB)
Input connector	Type F, 75 Ohms.
LNB power	14/18V, 22Khz, DiSEqC 2.0

ASI interface

Connector	BNC
Chipset	Gennum GS9074A, GS9078A

Control & Monitor

Serial port	Serial over USB CLI
IP	10/100 BaseT interface CLI and SNMP Management IP setting – Static or DHCP

Upgrade

Software and Firmware are field-upgradeable

IP Interface

Interface	10/100/1000 BaseT
Packet handling	UDP/IP
Traffic IP address	Static or DHCP
VLAN	Configurable
DSCP	Configurable

TSOIP encapsulation

Basic	RFC2250
Advanced*	Pro-MPEG COP# 3 encapsulation and FEC
Jitter	Hardware implementation to assure very low jitter

Environmental Conditions

Operating Temp.	0° to 50° C.
Storage Temp.	-25° to +85° C
Humidity:	5% to 95% non-condensing

Standard Compliance

Safety	CE or equivalent
EMI/EMC	FCC part 15, Class A

Physical Characteristics

Dimensions	3 cm x 10 cm x 15 cm (HxWxD)
Power	12VDC, 5W max
Weight	0.5 Kg

For more information please contact sales@ayecka.com | www.ayecka.com

* – Optional, please contact info@ayecka.com for more information