

# Modular reception system DVB to IP streamers

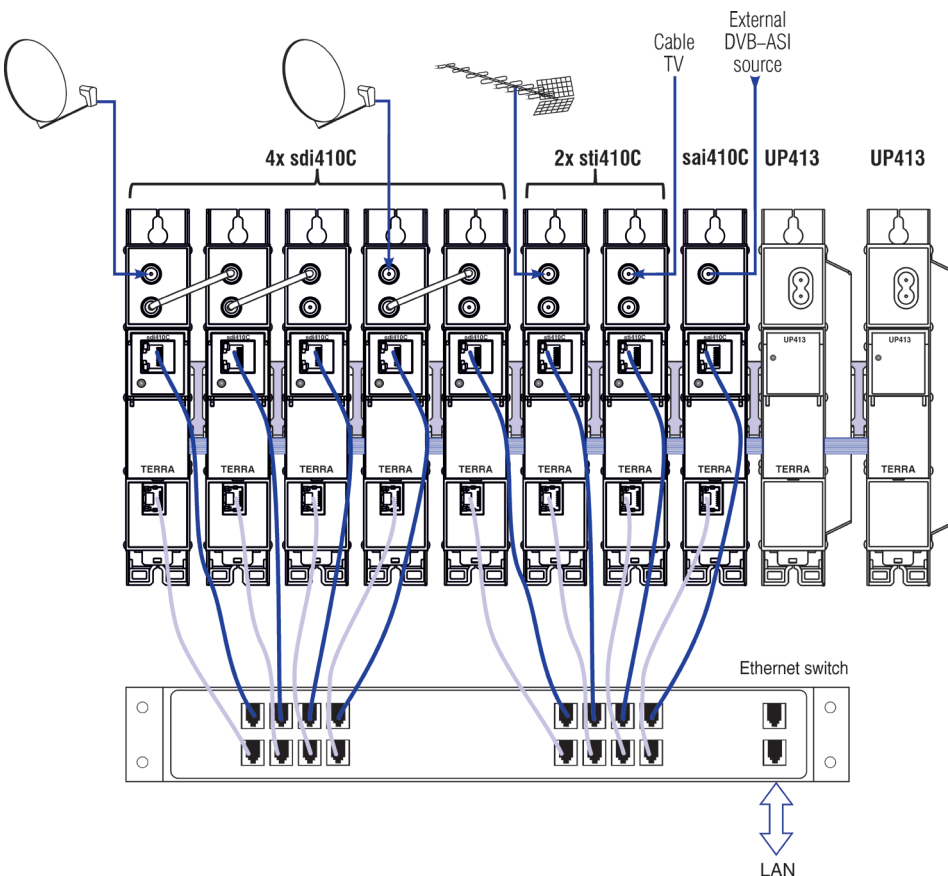
Dynamic penetration to every day live of tablets, laptops, SMART TVs creates the growing demand for distribution of visual content over in house Local Area Network. Flexibility and interactivity additional positive feature brings Internet protocol based television to TV distribution.

TERRA offers front IPTV streaming solution for various applications like hotels and hospitals, offices and stadiums and etc. The headend enables streaming of broadcasting programs from DBS satellites, terrestrial towers and CATV networks as well content from external DVB source through ASI interface.

Decryption of scrambled services is available through built in Common Interface. The web-based control of the headend makes easy setup and configuration.

The headend is very compact and power saving - high density solution: 2.4wats - 24 services per module.

- DVB-S/S2 streamer module
- DVB-T/T2/C streamer module
- DVB-ASI streamer module
- Power supply module



- Application diagram of IP streaming from:
- 6 SAT transponders from 2 satellites
  - 1 DVB-T channel
  - 1 cable TV channel
  - up to 24 services from single DVB-ASI source
  - powering redundancy

UP413 - power supply



# Modular reception system DVB to IP streamers

IP streaming of free-to-air or descrambled DVB services.

- one channel IP streamers
- common interface
- BISS descrambling (for sda410C, sta410C, saa410C only)
- SPTS or MPTS IP stream
- regeneration of information contained in the MPEG-2 tables
- UDP and RTP transmission protocols
- Web interface via dedicated Ethernet port
- loop through RF distributing
- SNMP monitoring
- robust die-cast housing
- connectors:  
RF, ASI input/output - type F  
Ethernet control, Ethernet stream output - RJ-45  
CAM - PCMCIA  
screw terminal block for DC entry  
power distribution bus

- sdi410C**  
DVB-S/S2 to IP
- sti410C**  
DVB-T/T2/C to IP
- sai410C**  
ASI to IP
- sda410C\***  
DVB-S/S2 to IP and ASI
- sta410C\***  
DVB-T/T2/C to IP and ASI
- saa410C\***  
ASI to IP and ASI



Technical specifications

T Y P E		sdi410C*		sti410C*			sai410C*
<b>Ordering number</b>		03818		03819			03820
<b>RF input</b>	frequency range	950-2150 MHz		47-862 MHz			-
	AGC range/impedance	45-85 dBμV / 75 Ω		30-80 dBμV / 75 Ω			-
	loop through gain	-1 ± 1 dB		0 ± 1 dB			-
	standard	<b>DVB-S</b>	<b>DVB-S2</b>	<b>DVB-T</b>	<b>DVB-T2</b>	<b>DVB-C</b>	-
	modulation	QPSK	QPSK, 8PSK	QPSK, QAM16, QAM64	QPSK, QAM16, QAM64, QAM256	QAM16, QAM32, QAM64, QAM128, QAM256	-
	bandwidth	-	-	7 MHz, 8 MHz	7 MHz, 8 MHz	-	-
	symbol rate	2 ÷ 45 Ms/s	2 ÷ 45 Ms/s	-	-	1 ÷ 7.2 Ms/s	-
	code rate	1/2, 2/3, 3/4, 5/6, 7/8	QPSK 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 8PSK 3/5, 2/3, 3/4, 5/6, 8/9, 9/10	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 3/5, 2/3, 3/4, 4/5, 5/6	-	-
	roll of	35 %	20 %, 25 %, 35 %	-	-	15 %	-
signal processing	ETS 300 421	ETS 302 307	ETS 300 744	ETS 302 755	ETS 300 429	-	
<b>ASI input</b>	packet length	-		-			188 / 204 bytes
	bit rate	-		-			up to 72 Mbps
	input voltage	-		-			200...880 mVpp
	impedance	-		-			75 Ω
	return loss	-		-			>15 dB
<b>LNB powering/control</b>		0/14/18 V & 300 mA max. DiSeqC 1.0		12 V 100 mA			-
<b>IP output</b>	standard	IEE802.3 10/100 Base T					
	bit rate	up to 80 Mbps					
	number of simultaneous streams	up to 24					
	transmission protocols	UDP/RTP					
	multicast, MPTS, SPTS	Yes					
<b>Management port</b>		standard IEE802.3 10/100 Base T					
<b>Current consumption**</b>		12 V 0.2 A					
<b>Operating temperature range</b>		0° ÷ +50° C					
<b>Dimensions/Weight (packed)</b>		36x198x107.5 mm/0.84 kg					

\* option with ASI output:

\*\* without external DC feeding and CAM; with CAM ≈ 0.3 A

Type	Ordering number
sda410C	03822
sta410C	03823
saa410C	03824

**ASI output parameters:**  
bit rate - up to 72 Mbps  
impedance - 75 Ω  
packet length - 188 bytes  
MPTS only