SCL-424CT

4 x DVB-S/S2/T/T2/C + 4xFlexCAM to 4 x DVB-T/C & IP

Features

- 4 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 4x FlexCAM (CIs can be connected at the inputs or outputs)
- 4 x RF output DVB-T/C (software selectable)
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- "Pool" technology
- MER value > 40dB
- PID Filtering
- Custom NIT/SDT
- Linux OS
- Fleex embedded Support
- Very friendly user interface
- Wall or rack mountable
- Compact size
- SNMP v2 support
- 5year warranty

Rack & Wall mount	LAN Interface	HDCP Support
Hybrid IP-RF	EPG over RF & IF	
PID filtering	Customizable NIT & SDT	Pool Technology
Multi-Standard	E/M Shielding	

The new SCL-424CT headend from Compact Line 2 series is a very powerful, all-in-one device, able to receive up to 4x independent satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) signals and convert them in 4x DVB-T/C RF output channels while offering 1x Gbit IPTV streaming simultaneously. The SCL-424CT supports 4x CI interfaces, using FlexCAM technology, to be able to descramble any TV content by using the appropriate CAM (Conditional Access Module) as well as it supports "pool" technology, meaning that the user is able to select any program from any of the 4x inputs and assign it to any of the 4x RF + IP outputs providing great flexibility.

A powerful CPU (Quad core @ 1.8GHz / 2GB RAM) is responsible for controlling the device using Linux OS while providing a friendly and very fast user interface as well as the ability of remote or local control of the device via Ethernet.

Its small size and powerful features render the SCL-424CT the ideal solution in the cases that we want to distribute FTA (Free-To-Air) TV programs coming from satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) sources to a CATV installation using the DVB-T/C and IP technology.

Finally, the SCL-424CT is able to host an IPTV middleware (Fleex Embedded), without the need of any external server, providing the capability to the final user to control all TV monitors in an installation (LG, Samsung, Philips and custom STBs supported) while offering a variety of different features like Live TV, Live Radio, Info channels, Cast, Weather, Alarm, EPG and many more…

TECHNICAL SPECIFICATIONS

Input Specifications

Input

Type	4 x DVB-S/S2/T/T2/C	
Frequencies	950…2150 MHz	DVB-S/S2
	118…900MHz	DVB-T/T2/C
Connector	75Ω - F, female	
CI Interfaces:	4x PCMCIA	
	Each CI can be connected at the input or output via software	

LNB

Voltage	OFF / 13V / 18V
Current	< 400mA
22 KHz signal	On / Off
-Voltage	0.65V ±0.35V
-Frequency	22 KHz ±4Hz
-DiSEqC	1.0 (Port A, B, C, D)

DVB-S

Standard	EN 300-421 V1.1.2
Symbol Rate	1 - 55 MBaud
Roll off factor	0.2, 0.25, 0.35
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8 (automatic)
Spectral Inversion	Reverse, Non-reverse (automatic)

DVB-S2

Standard	EN 307-421 V1.2.1
Constellation	QPSK, 8PSK (automatic)
Symbol rate	1 - 55 MBaud (QPSK)
	1 - 45 MBaud (8PSK)
Roll off factor	0.2, 0.25, 0.35 (automatic)
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (QPSK- automatic)
	3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK-automatic)
Spectral inversion	Reverse, Non-reverse (automatic)

DVB-T

Standard	EN 300-744 V1.6.1
Bandwidth	6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8

DVB-T2 / T2 Lite

Standard	EN 302-755 V1.3.1
Bandwidth	5, 6, 7, 8 MHz
Mode	1K, 2K, 4K, 8K, 16K, 32K (Included extended mode)
Constellation	QPSK, 16QAM, 64QAM, 256QAM
Code rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6

ITU-T J.83

Standard	Annex A(DVB-C), B(US cable),C
Bandwidth	5, 6, 7, 8 MHz
Mode	Automatic modulation detection
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM

Output Specifications

DVB-T

Standard	EN 300-744
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Code rate	1/2, 2/3, 3/4, 5/6, 7/8

ITU-T J.83

Standard	Annex A(DVB-C)
Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	1-7.2 Ms/s

RF Output

Type	4 x RF out in adjacent channels
Output Frequencies	110…950 MHz (1 Hz step)
Output Level	90dBμV
Connector	75Ω - F, female
Output Attenuator	0…-20dB
MER	>42dB
Output loop-through loss	<1dB

Transport Stream Processing

Services	User selection by service names
Automatic Regeneration	PAT, CAT, SDT, PMTs, EITs tables
NIT/SDT	Pass-through, custom, automatic
PCR	re-stamping
LCN support	Yes
Bypass Mode:	Yes

IP Streaming

IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1Gbit
IGMP support	Yes, v2, v3
Type	MPTS (up to 4 TS)
	SPTS (up to 64 programs)
Max. Bitrate	480Mbps max. (in IP only mode)

Programming Interface

Operating system	Linux
Ethernet webserver	Yes, embedded webserver
Speed	100/1000 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge etc.(Must support HTML v5.0)

General

Power Supply	108 to 240 VAC 50/60Hz
Power supply consumption	55 VA max.
Operating Temperature	0 °C to 40 °C
Storage Temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	296.2 x 204.50 x 106 mm
Weight	1.7 Kg

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