

# SCL-824CT

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



## Features

- 8 x independent multi-standard inputs DVB-S/S2/T/T2/C
- 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-824CT headend from Compact Line 2 series is a very powerful, all-in-one device, able to receive up to 8x 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. It supports "pool" technology, meaning that the user is able to select any program from any of the 8x 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-824CT 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-824CT 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**

<b>Input</b>		
Type	8 x DVB-S/S2/T/T2/C	
Frequencies	950...2150 MHz	DVB-S/S2
	118...900MHz	DVB-T/T2/C
Connector	75Ω - F, female	

<b>LNB</b>		
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)	

<b>DVB-S</b>		
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)	

<b>DVB-S2</b>		
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, 9/10 (QPSK- automatic) 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (8PSK- automatic)	

Spectral inversion	Reverse, Non-reverse (automatic)	
--------------------	----------------------------------	--

<b>DVB-T</b>		
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	

<b>DVB-T2 / T2 Lite</b>		
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	

<b>ITU-T J.83</b>		
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**

<b>DVB-T</b>		
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	

<b>ITU-T J.83</b>		
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

