LEMCO
TV SOLUTIONS

Compact Line 2

HCL-824CT

8 x HDMI to 4 x DVB-T/C & IP

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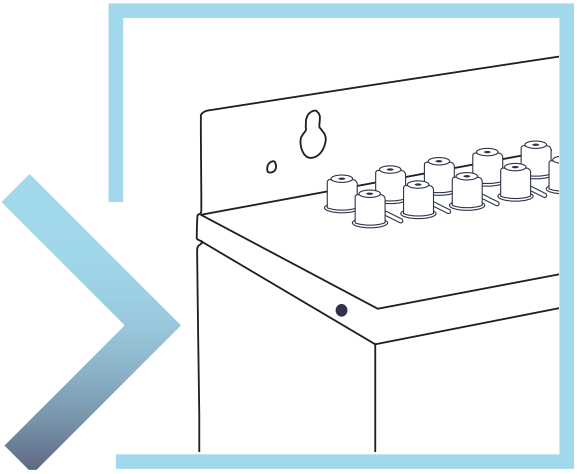
Compact Line 2



The new HCL-824CT headend from Compact Line 2 series is a very powerful, all-in-one device, able to receive up to 8x HDMI 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 HCL-824CT the ideal solution in the cases that we want to distribute HDMI content eg. coming from STBs or blue ray sources to a CATV installation using the DVB-T/C and IP technology.

Finally, the HCL-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…

Features

- 8 x HDMI inputs
- Full HD H.264 encoding
- HDCP v1.4 support
- 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
- Custom NIT/SDT
- Linux OS
- Fleex embedded Support
- Very friendly user interface
- Wall or rack mountable
- Compact size
- SNMP v2 support
- 5year warranty

8 x HDMI to 4 x DVB-T/C & IP

HCL-824CT

Technical Specifications

Input Specifications

Input	
Type	8 x HDMI inputs
Video coding	MPEG-4 AVC / H.264
Profile	High profile 4.0
Input resolution	Up to 1920 x 1080 - 50/60 p & i
Output resolution	Up to 1920 x 1080 - 30p
HDCP support	Yes, v1.4

Audio	
Audio	HD
Standard	MPEG-1 Layer II
Audio Bit Rate	64, 96, 128, 192, 256, 320 Kbps
Format	MPEG2, AAC, AC3

H.264 encoder	
Standard	MPEG-4 AVC / H.264
Bit Rate	1 – 19 Mbps adjustable
Configurable Parameters	Service Name, Service ID
LCN processing	Yes

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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