LEMCO®

DIGITAL TV SOLUTIONS

micro
line

MLC-101

2xDVB-S/S2/S2X + 2xFlexCAM to 4xDVB-T/C

Features

- 2 independent multi-standard inputs DVB-S/S2/S2X
- 2 FlexCAM
- 4 RF outputs DVB-T/C (software selectable)
- "Multistream" reception support
- "Pool" technology
- MER value > 42dB
- PID filtering
- Dual power supplies offering redundancy mode

- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- SNMP v2
- Ultra-compact size
- 5-year warranty

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MLC-101

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◆ The MLC-101 is a very powerful, all-in-one mini headend device, able to receive up to 2 independent satellite (DVB-S/S2/S2X) signals with 2x CI interfaces and convert them either in 4 x DVB-T/C RF output channels. Moreover, the MLC-101 supports "multistream" satellite reception too. The FlexCAM technology provides the ability to the user to connect the CAMs either at the inputs or the outputs of the device.

◆ It supports "pool" technology, meaning that the user is able to select any program from any of the two inputs and assign them to any of the 4 RF or IP outputs providing great flexibility.

◆ The embedded web server of the MLC-101 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

◆ Its small size and its powerful features render the MLC-101 the ideal solution in case we want to distribute FTA (Free-To-Air) or scrambled TV programs coming from satellite (DVB-S/S2/S2X) sources to a CATV installation using the DVB-T/C.

Technical Specifications

Input

Type	2 x DVB-S/S2/S2X
Frequencies	950…2150 MHz DVB-S/S2/S2X
Multistream support	Yes
Connector	75Ω - F, female
Descrambling	Yes, Accepts 2 x universal CAM capable of connecting either on input or output

LNB

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

DVB-S (IN)

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

DVB-S2 (IN)

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-S2X (IN)

Constellation	QPSK, 8PSK (Automatic)
Symbol rate	1 - 45 MBaud (QPSK)
	1 - 30 MBaud (8PSK)
Roll off factor	Από 0.05 έως 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)

Transport Stream Processing

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

RF Output

Type	4 x RF out in adjacent channels
Output Frequencies	110…950 MHz (1 Hz step)
Output Level	90dBuV
Connector	75Ω - F, female
Output Attenuator	0…-20dB
MER	More than 42dB

DVB-T (OUT)

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

DVB-C (OUT)

Bandwidth	5, 6, 7, 8 MHz
Mode	2K, 8K
Constellation	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
Symbol rate	1-7.2 Ms/s

Programming Interface

Ethernet webserver	Yes, embedded webserver
Speed	10/100 Mbps
Connector	RJ45
Browser compatibility	Chrome, Firefox, Safari, Opera, Edge et al.

General

Power supply	2 x +12VDC
Power supply consumption	1.8A max.
Operating temperature	0 °C to 40 °C
Storage temperature	-10 °C to +70 °C
Humidity	Up to 90%
Dimensions	235 x 115 x 48 mm
Weight	450 g

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