

# LEMCO®

DIGITAL TV SOLUTIONS



micro  
line

MLF-301

4xDVB-S/S2/S2X to 4xDVB-T/C + IP

## Features

- ▄ 4 x independent multi-standard inputs DVB-S/S2/S2X
- ▄ 4 x RF output DVB-T/C (software selectable)
- ▄ Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- ▄ "Pool" technology
- ▄ MER value > 42dB
- ▄ PID filtering
- ▄ Dual power supplies offering redundancy mode
- ▄ Custom NIT/SDT
- ▄ Local or remote control via webserver
- ▄ zx w Very friendly user interface
- ▄ Wall or rack mount options
- ▄ SNMP v2
- ▄ Ultra-compact size
- ▄ 5-year warranty

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# MLF-301

## 4xDVB-S/S2/S2X to 4xDVB-T/C + IP



- ◆ The MLF-301 is a very powerful, all-in-one mini headend device, able to receive up to 4 independent satellite (DVB-S/S2/S2X) signals and convert them either in 4 x DVB-T/C RF output channels or in IPTV streaming using UDP/RTP protocols multicast/unicast.
- ◆ It supports "pool" technology, meaning that the user is able to select any program from any of the 4 inputs and assign them to any of the 4 RF or IP outputs providing great flexibility.
- ◆ The embedded web server of the MLF-300 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 MLF-301 the ideal solution in case 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 or IPTV technology.

## Technical Specifications

Input	
Type	4 x DVB-S/S2/S2X
Frequencies	950...2150 MHz DVB-S/S2/S2X
Multistream support	Yes
Connector	75Ω - F, female
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
IP Streaming	
IP TS Out	Yes
Protocol	UDP / RTP (Multicast/Unicast)
Speed	1 Gbit
IGMP support	Yes, v2, v3
Type	MPTS (up to 4 TS) SPTS (up to 64TS)
Max. bitrate	480Mbps max.
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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