



# 4 x DVB-S/S2/T/T2/C TO 4 x DVB-T/C

## KRH100

The KRH100 is a very powerful, all-in-one mini headend device, able to receive up to 4 independent satellite (DVB-S/S2), terrestrial (DVB-T/T2) or cable (DVB-C) signals and convert them either in 4 x DVB-T/C RF output channels. 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 outputs providing great flexibility. The embedded web server of the KRH100 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 KRH100 the ideal solution in case you 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.

### FEATURES

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Input: 4 x DVB-S/S2/T/T2/C

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Output: 1 x RF output containing up to 4 x DVB-T/C channels (software selectable)

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Input Frequency Range: 174~862MHz (DVB-T/T2/C) & 950~2150MHz (DVB-S/S2)

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Output Frequency Range: 174~862MHz (DVB-T/C)

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Maximum Output Power Level: 90dB

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MER Output: >42dB

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Dual Power Supply: 1 + 1 backup

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5 Years Warranty on the main unit, 2 Years Warranty on the power supply

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Power Consumption: 1.8A maximum

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Operating Voltage: 12V DC 2.5A

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## PRODUCT 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
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	90dB $\mu$ V
	Connector	75 $\Omega$ - 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

PROGRAMMING INTERFACE	Ethernet Webserver	Yes, embedded webserver
	Speed	10/100 Mbps
	Connector	RJ45
	Browser Compatibility	Chrome, Firefox, Safari, Opera, Edge etc (Must support HTML v5.0)
	SNMP Support	Yes
	SNMP Version	v2.0

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	0.45 Kg

Specifications are subject to change without notice, they are issued as a guide only and shall not form part of any contract without the express written authorisation of GME.

