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K20 Compact Headend DVBS2 - DVBC, 8 to 16 MUX

The perfect balance between simplicity and efficiency

Ready to work compact headend that generates QAM multiplex from the services available in TV SAT transponders (DVB-S/S2/S2X). Stand alone solution for transparent transmodulation of any transponder from any of the 4 satellite polarities, and just a electrical plug (PSU included).

It is possible to combinate two K20 headends to achiveve a greater number of output multiplex. Both devices will be connected in loop mode (cascade), and it can be possible to manage the configuration of the whole solution with one of the K20 units set in master mode.

The headend allows its configuration throught a Web interface via Ethernet or WiFi (accessory ref. 216802 required).

Ref.570101	8 transponders				
	Art.Nr	K20-8			
	EAN13	8424450212714			
Ref.570102	12 transponders				
	Art.Nr	K20-12			
	EAN13	8424450212721			
Ref.570103	16 transponders				
	Art.Nr	K20-16			
	EAN13	8424450212738			
Ref.570104	20 transponders (Ref. 570101 + Ref. 570102)				
	Art.Nr	K20-20			
	EAN13	8424450221907			
Ref.570105	05 24 transponders (Ref. 570101 + Ref. 570103)				
	Art.Nr	K20-24			
	EAN13	8424450221914			



Highlights

- Easy-to-install solution (Plug & Play): less cables and shoter installation time
- Pre-settings autoconfiguration: the user selects which preloaded configuration wants and the module configurates itself
- User web interface: Access to the headend configuration through Ehternet connection or a self-created WiFi network. The interface is perfectly adapted to any device: PC, smartphone or tablet
- Cloning function to replicate configurations between different installations
- Flexible number of input transponders: combination of two K20 units to obtain more transponders (up to 32). In this case, one of the modules will be the master and the other the slave
- Good thermal management thanks to its built-in heat sink and fans

Main features

- SID filtering allows the removal of undesired services inside a multiplex (enhanced occupation use)
- Compact design: 273x203x57 mm
- Zamak chassis provides high screening effect
- Great robustness

Functionalities

Using preloaded configurations

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These headends incorporate default preloaded configurations in the system depending on the number of transponders in the module. Simply select the desired configuration for the installation and apply it.

Wizard mode for guided configuration





The interface includes a "Wizard" mode to configure a unit or the joint configuration of two loop mode units. It offers a guided step-by-step configuration to ensure successful configuration, with led indication of the unit, selection of the desired preload configuration, and a summary of the applied configuration.

Ethernet network configuration



Each unit has two Ethernet RJ45 connectors, one for network connection and the other one for loop mode link between units. Thanks to the interface it is possible to configure input parameters of the network connection: IP address, subnet mask, and default port link, as well as the DHCP client mode.

Cloning of headends configurations



The web interface allows to export/import files for duplicating units configurations, to use them in another intallations. This function helps to reduce time in typical installations, due of having previously a configured file. The exportation of these files also allows to have a headend configuration backup.

Status system window



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An analysis of the general information of the installation can be seen on the interface. The system indicators are identified with colors in order to facilitate the identification of errors in case of any incident.

Secure configuration with password



Protect the headend from unauthorized profiles by assigning a password to access the configuration edition. In addition, for those cases where there is more than one unit, both master and slave devices must have the same password.



Application example

(Click to see the picture)













Technical specifications

	Input froquency		MLI-7	050 2150		
	input irequency		IVITIZ	9502150		
	Symbol rate Mbaud		Mbaud	2 - 42.5 (DVB-S) 10 - 30 (DVB-S2/S2X)		
	Frequency steps		MHz	1		
	Input level dBµV		dBµV	49 - 84		
	Input and output connectors			"F"-Female		
	Input impedance		Ohm	75		
	LNB powering		Vdc/KHz	13V/17V/ OFF - 22KHz (ON/OFF)		
	Satellite selection (DiSEqC)			A, B, C, D		
SAT input		DVB-S2X		QPSK/8PSK, 8/16/32 APSK (EN302307-2)		
	Modulation	DVB-S2		QPSK, 8PSK (EN302307)		
		DVB-S		QPSK (EN300421)		
	Internal FEC			LDPC (9/10, 8/9, 5/6, 4/5, 3/5, 3/4, 2/5, 2/3, 1/3, 1/4, 1/2)		
	External FEC			BCH (Bose-Chaudhuri-Hocquenghem)		
	Roll-Off factor		%	20, 25, 35		
	Modulation format Symbol rate Mbau			16, 32, 64, 128, 256 QAM		
			Mbaud	1 - 7.2		
	Roll-Off factor		%	15		
OAM medulater	Block code			Reed Solomon (188, 204)		
QAM modulator	Scrambling			DVB ET300429		
	Interleaving			DVB ET300429		
	Bandwith		MHz	8.28 max.		
	Output spectrum (select.)			Normal / Inverted		
	Output frequency (sel	ect.)	MHz	46862		
	Frequency steps		KHz	250		
	Maximum output level (select.)		dBµV	95±5		
RF Output	Attenuation		dB	0 - 15 (global) 0 - 10 (per channel)		
	Through losses		dB	< 1		
	Input/output connectors			"F"-Female		
	Output impedance		Ohm	75		
	Power supply		V~ Hz	230 50/60		
General	Consumption		W / mA	570101 - 36 / 265 570102 - 62 / 470 570103 - 64 / 480		
	Protection index		IP20			