Televes®

THE PERFECT BALANCE BETWEEN
SIMPLICITY AND EFFICIENCY

K20 COMPACT HEADEND

Generation of QAM (DVB-C) multiplex from services available in SAT (DVB-S/S2/S2X) transponders, for hotels, hospitals or community facilities

PLUG & PLAY
Easy-to-install solution (Plug & Play)

K20
Pre-settings autoconfiguration

Configuration through a smartphone, tablet or PC

MADE IN TELEVES
100% Made in Televes

K20

K20 is a ready-to-work compact headend that generates QAM (DVB-C) multiplex from the services available in TV SAT transponders (DVB-S/S2/S2X).

An standalone solution for the distribution of satellite programs in hotels and guesthouses, hospitals, retirement homes and other community facilities.

- Valuable **TIME SAVING** in the system configuration and set-up.

- **FAST**: Only one reference number is required to order the solution.

- **RELIABLE**: Televes' products are 100% tested and are delivered with the latest software version.

- **FLEXIBLE**: A later expansion of the solution with a 2nd K20 unit is possible without any complication.

- **CUSTOMER ORIENTED**: The K20 headend is designed to meet the customer requirements of housing and hospitality industry.

- **SIMPLE**: Intuitive web interface and Plug&Play installation.

- **REMOTE CONTROL**: A quick and easy service is possible thanks to its remote maintenance and online backup.

Ref.	Description	EAN13
570101	K20 COMPACT HEADEND: DVB-S2/QAM 8TP	8424450212714
570102	K20 COMPACT HEADEND: DVB-S2/QAM 12TP	8424450212721
570103	K20 COMPACT HEADEND: DVB-S2/QAM 16TP	8424450212738
570104	K20 COMPACT HEADEND: DVB-S2/QAM 20TP (Ref. 570101 + Ref. 570102)	8424450221907
570105	K20 COMPACT HEADEND: DVB-S2/QAM 24TP (Ref. 570101 + Ref. 570103)	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**: Remote access to the headend configuration with your PC, smartphone or tablet. An additional software is not required.

✓ **Flexible number of input transponders**: combination of two K20 units to obtain more transponders (master-slave mode).

✓ **SID filtering**: allowing to remove undesired services inside a multiplex (enhanced occupation use).

✓ **Compact design**: 273x203x57mm

✓ **Great robstness and high shielding**: chassis made of Zamak.

✓ **Good thermal management**: thanks to its built-in heat sink and fans.

PRE-SETTINGS CONFIGURATION:

Selection of preloaded configurations is possible through the web interface. This functionality allows the selection of a huge number of services with different types of contents, significantly reducing the installation time.

These presets offer the possibility of configuring from 6 to 24 transponders, all these options adapted to Astra 19°E satellite.

Ref.	PRESETS CONFIGURATION				
	UNI8	UNI12	UNI16	UNI20	UNI24
570101	✓	✗	✗	✗	✗
570102	✓	✓	✗	✗	✗
570103	✓	✓	✓	✗	✗
570104	✓	✓	✓	✓	✗
570105	✓	✓	✓	✓	✓

PROGRAM LIST
OF PRESETS CONFIGURATION

ⓘ

en.**televes**.com/**K20_Program_list**

WEB INTERFACE:

Thanks to its Web interface, it is possible to configure the headend remotely with a smartphone, tablet, laptop or any other device connected to the Internet. Just connect the unit to the network by Ethernet conection or using a WiFi adapter (ref. 216802) and you will achieve significant time savings when configuring your installation.

With this control interface you can configure different functionalities:

PRELOADED CONFIGURATIONS:

Simply select the desired configuration for the installation depending on the number of transponders in the module and apply it.
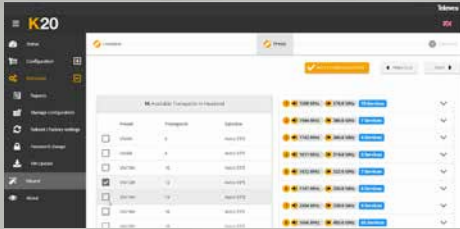
CLONING OF HEADENDS CONFIGURATION:

Export/import files for duplicating units configurations, to use them in another intallations.

WIZARD MODE:

It offers a guided step-by-step configuration to set up a unit or two loop mode units, ensuring a successful installation.


STATUS SYSTEM WINDOW:

An analysis of the general information of the installation can be seen on the interface.

OPERATION MODES:

The K20 headend can operate as a single device and also with the combination of 2 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.
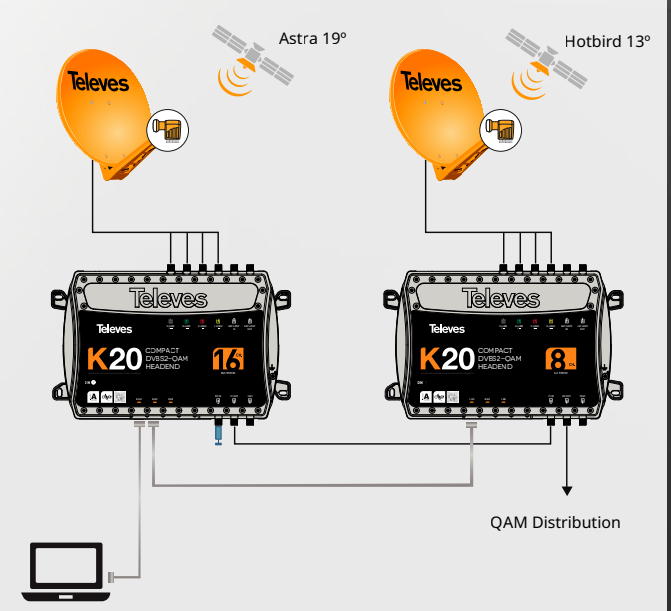
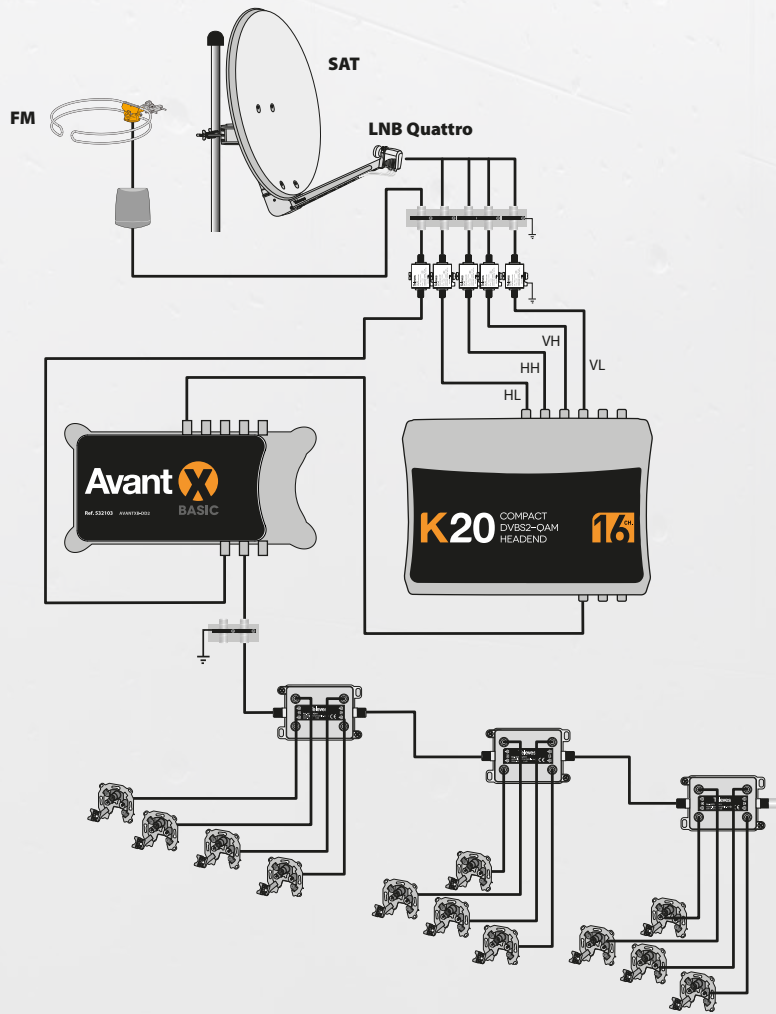### 1 SATELLITE - 16 TRANSPONDERS
WEB INTERFACE CONFIGURATION

Astra 19º

Ref.216802
WLAN USB Adapter

WIFI

QAM Distribution
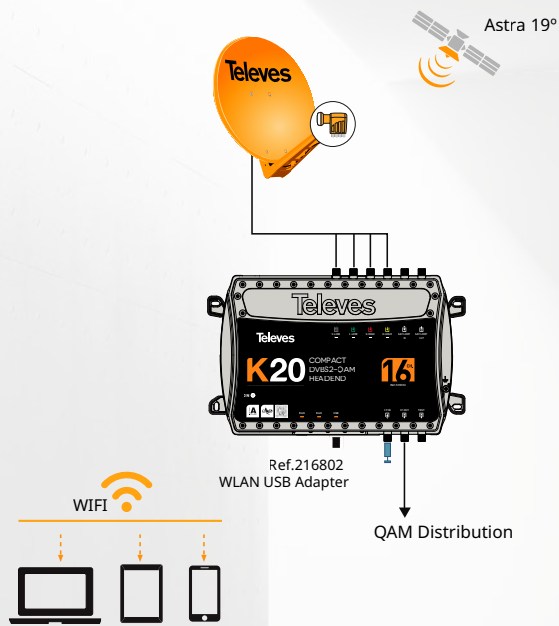
1 SATELLITE - 24 TRANSPONDERS
CONFIGURATION VIA PC

Astra 19º

QAM Distribution
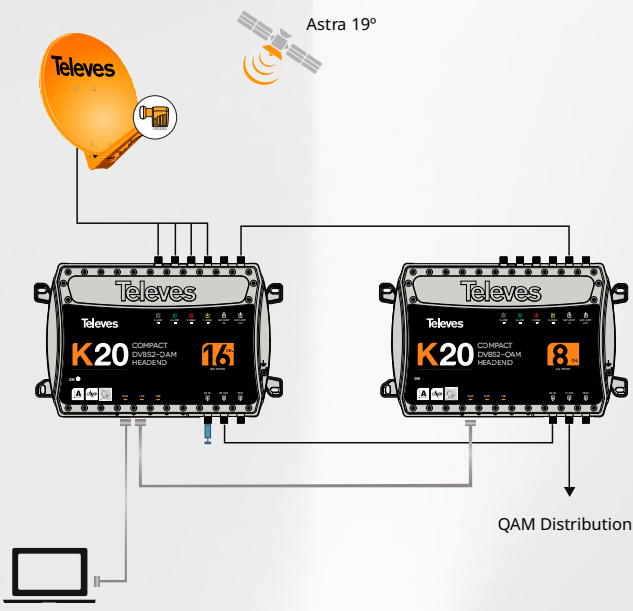
2 SATELLITES - 24 TRANSPONDERS
CONFIGURATION VIA PC

Astra 19º   Hotbird 13º

QAM Distribution

1 SATELLITE - 16 TRANSPONDERS
WITH FM RADIO

INPUT / OUTPUT DESCRIPTION:
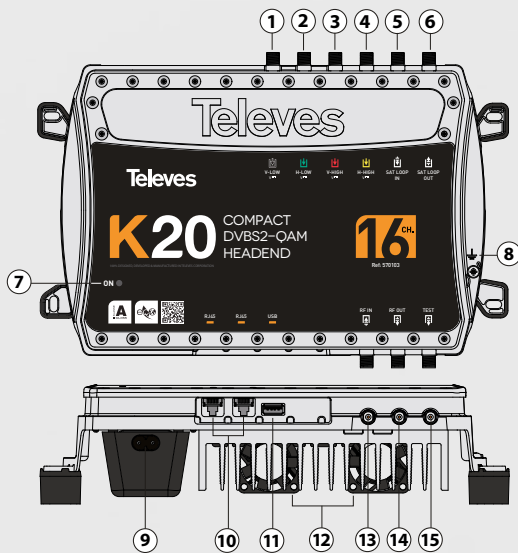
1. SAT Input 1 (V-LOW)
2. SAT Input 2 (V-LOW)
3. SAT Input 3 (V-HIGH)
4. SAT Input 4 (H-HIGH)
5. SAT LOOP IN
6. SAT LOOP OUT
7. Power/Status LED
8. Ground connection
9. Powering
10. RJ45 GB Ethernet connectors
11. USB-A connector
12. Ref. 570101 - 1 fan
    Refs. 570102, 570103 -2 fans
13. RF input
14. HF output
15. Test output (-17dB)

TECHNICAL SPECIFICATIONS:

	Refs.	570101, 570102, 570103	
SATELLITE INPUTS	Input frequency	MHz	950 - 2150
	Symbol rate	Mbaud	2 - 42.5 (DVB-S) 10-30 (DVB-S2/S2X)
	Frequency steps	MHz	1
	Input level	dBµV	49 to 84 (-60 to -25 dBm)
	Input/Output connectors		"F" - Female
	Input impedance	Ω	75
	LNB powering [1]	V⎓/ kHz	13-17- OFF / 22kHz (ON-OFF)
	Satellite selection (DiSEqC)		A, B, C, D
	Modulation	DVB-S2X	QPSK/8PSK, 8/16/32 APSK (EN302307-2)
		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
QAM MODULATOR	Modulation format		16, 32, 64, 128, 256 QAM
	Symbol rate	Mbaud	1 - 7.2
	Roll-off factor	%	15
	Block code		Reed Solomon (188,204)
	Scrambling		DVB ET300429
	Interleaving		DVB ET300429
	Bandwith	MHz	<8.28 (7.2 Mbaud)
	Output spectrum		Normal / Inverted (Select.)
RF OUTPUT	Output frequency (select.)	MHz	46 - 862
	Frequency steps	kHz	250
	Maximum output level (select.)	dBµV	98 $\pm$ 5
	Attenuation (program.)	dB	0-15 (global) 0-10 (per channel)
	Through losses (typ.)	dB	< 1
	Input/Output connectors		"F"- Female
	Output impedance	Ohm	75

GENERAL	Power supply		V~ Hz	230 50/60
	Consumption [2]	Ref.	570101	P.max: 36W I.max: 265mA
			570102	P.max: 62W I.max: 470mA
			570103	P.max: 64W I.max: 480mA
	Protection index		IP	20

[1] Max: 250 mA (input SAT 1 + input SAT 2) + 250 mA (input SAT 3 + input SAT 4).

[2] Average power consumption with input signal and powering LNB (250 mA + 250 mA).

The technical characteristics described are defined for a maximum ambient temperature of 45 ° C. Sound power level (LwA): 57dB

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