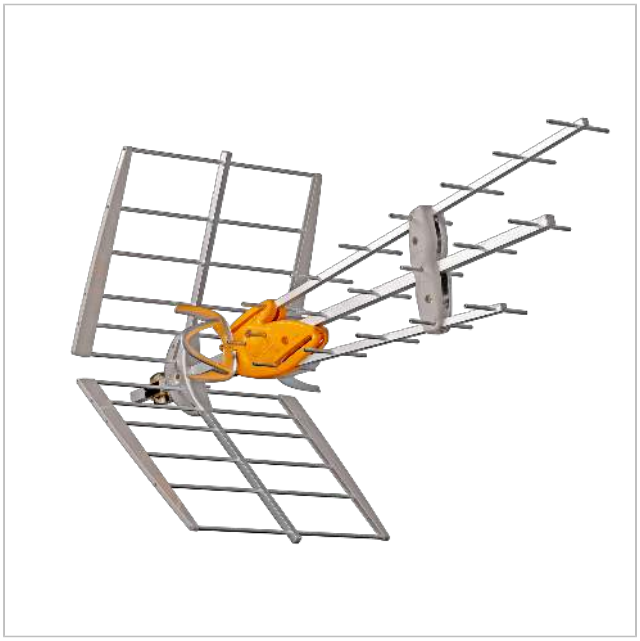


DAT BOSS antenna UHF, 2nd Digital Dividend (LTE700)

If the DAT BOSS can't receive it, nothing can

Intelligent antenna including the BOSSTech system, designed for quality reception of UHF (DTT), optimizing LTE band rejection up to channel 48 (694MHz).

Ref.	149922
Logical ref.	DATTF2-6
EAN13	8424450185063

Other features

Colour	Orange
Power Supply Unit	Not included
Supply method	Multiple packing

Packaging info

Box	6 pcs.
Pallet	60 pcs.

Physical data

Net weight	2,080.00 g
Gross volume	34.00 dm³
Gross weight	2,080.00 g
Width	1,142.00 mm
Height	736.00 mm
Depth	560.00 mm
Main product weight	2,080.00 g

Highlights

- High dynamic range: it allows the reception of high-quality TV in a variety of critical situations, from areas where signals are very weak to installations with high signal levels

- Expanded DTT coverage area: up to 27% higher than previous models
- More stable signal reception: it supports signal variations or fading with no effect on the TV installation
- Optimal C/N: thanks to a noise figure of only 1.2dB that enhances the received signal quality
- Very high gain: TForce technology provides BOSS with an increase in gain of up to 13dB
- The DAT design, based on 3 Yagi antennas with asymmetric directors, provides great directivity as well as an optimal anti-echo radiation pattern
- Special double-U dipole: it's open/close format provides optimal frequency response flatness
- A fully shielded switch box protects the BOSS system from impulsive noise; grounded for full protection against electrical discharge
- Manufactured in aluminium (stainless) for a long service life
- Two work mode options: Intelligent low power consumption mode or passive mode (lack of power supply).
- Fully automated manufacturing in Europe under the most stringent quality controls: a synonym of high reliability

Discover

TForce technology:

Televes transitions from the traditional silicon era into a new era of electronic component design, allowing integrated circuits to be precisely manufactured for microwave frequency bands. Utilizing “State of the Art” MMIC technology TForce is manufactured using semiconductor compounds such as gallium arsenide (GaAs), providing the resulting products with unparalleled features and performance

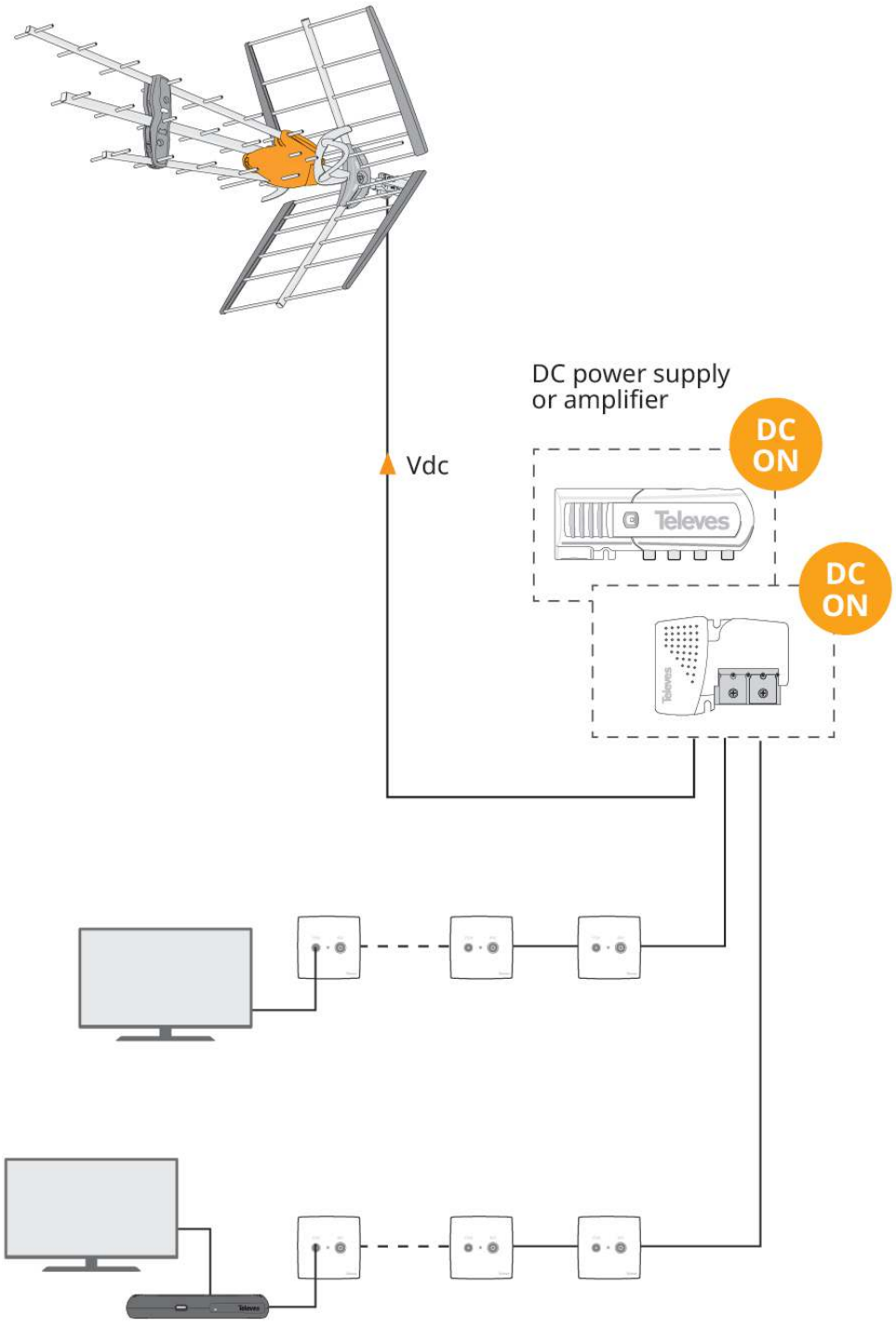
Televes has reinvented the antenna concept. Until now, an antenna was just the reception component of a TV installation in which gain and directivity were the main features. The introduction of a smart device like BOSS provides the antenna with the capacity to receive very weak signals without the risk of being affected by very strong signals, the result is a dynamic balance between weak and strong signals that provides optimum signal levels at all times: the "dynamic range" concept turns out to be the most outstanding among quality parameters.

The creation of TForce with BOSS technology using MMIC components is an extraordinary milestone in

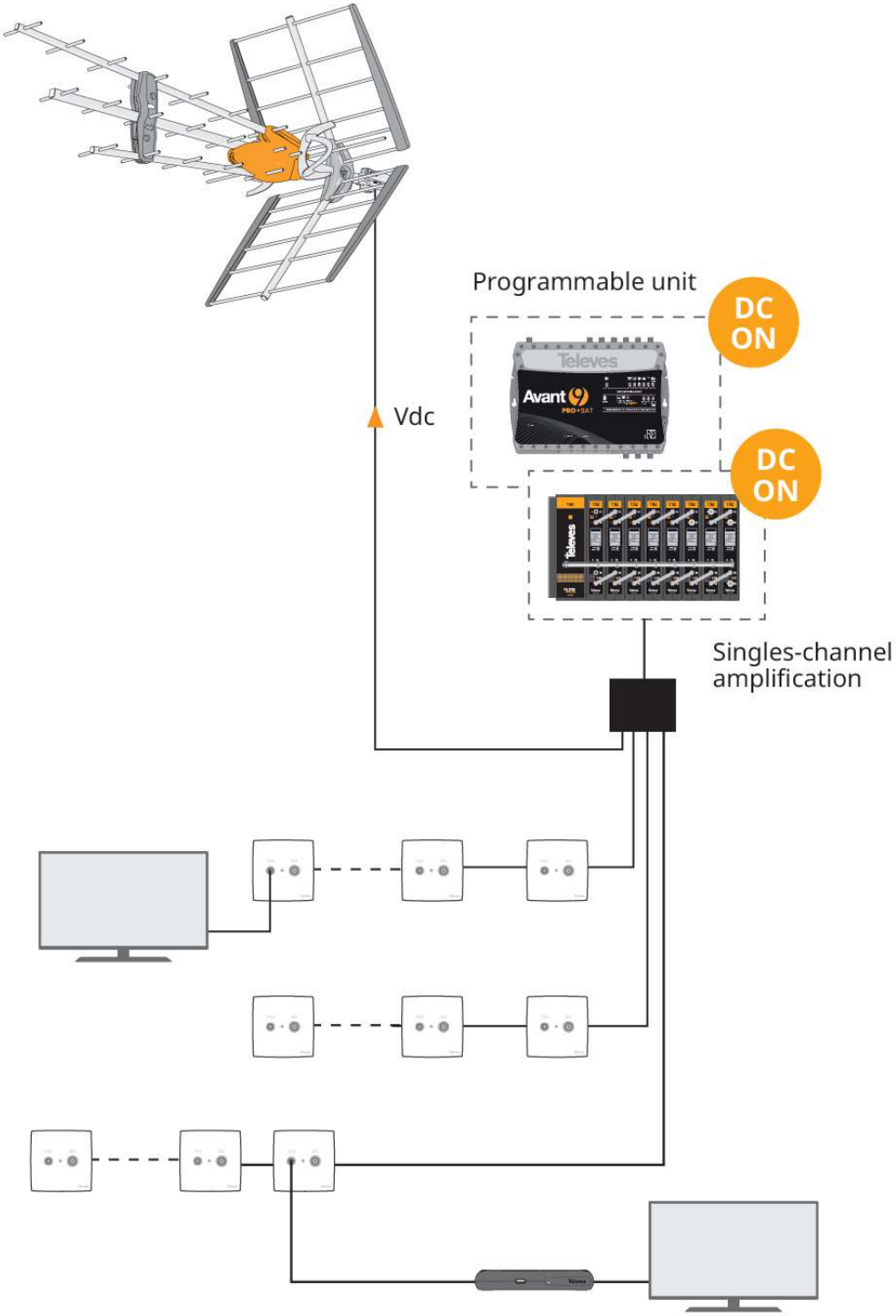
the optimization of the dynamic range. The technology that allowed the reception of lost signals from distant satellites is now allowing the enhancement of the coverage range in DTT installations.

Application example

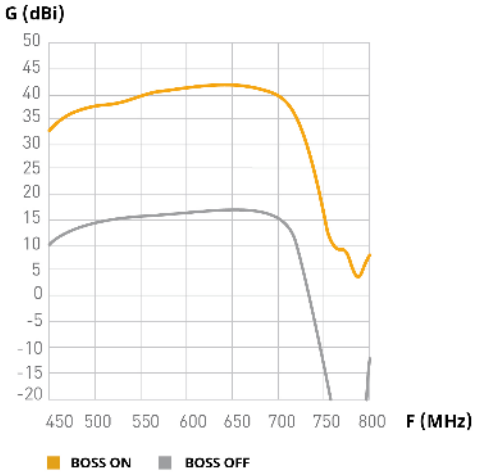
BOSS activation by means of a power supply unit or an amplifier.



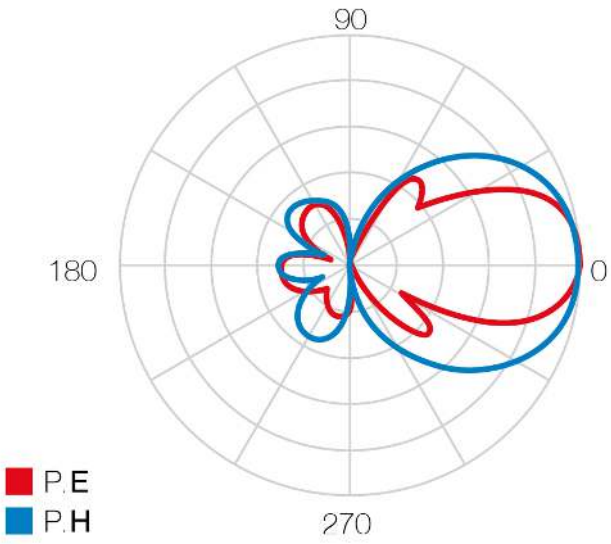
BOSS activation through headend system.


Programmable unit
DC ON
Vdc
DC ON
Singles-channel amplification

Graphic documentation



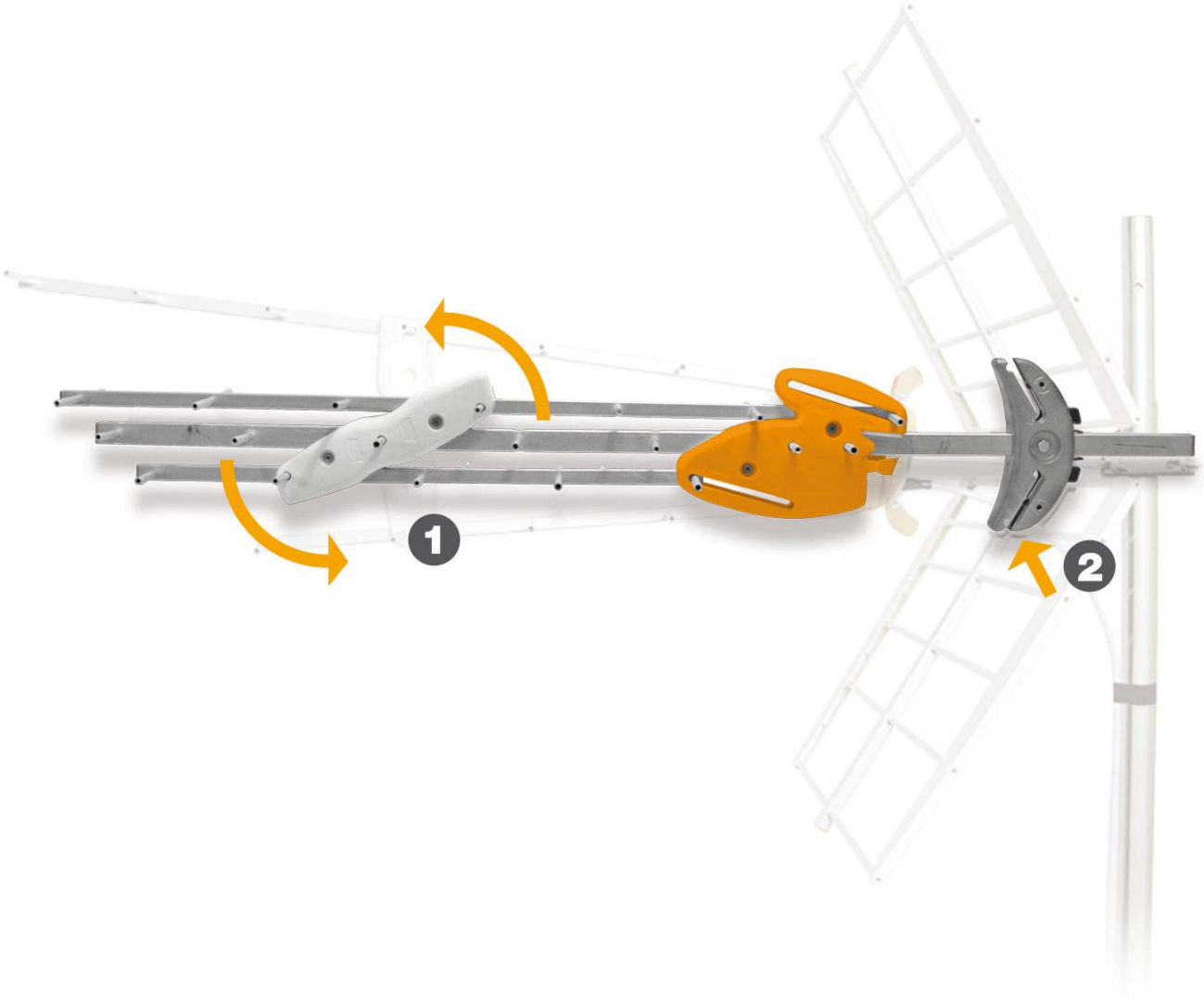
Frequency response



Radiation pattern

Mounting details

Antennas provided in multiple packing include both a structure folding mechanism (1) and a cam mechanism in the antenna base (2) to optimize transport and storage, while making installation easier.


1
2

Technical specifications : Ref. 149922

Bands		UHF	
Frequency range	MHz	470 ... 698	
Channels		21 ... 48	
BOSS mode		ON	OFF
Gain	dBi	42	17
Output level		Auto*[1]	--
Noise figure		1.2	--
Signal level of use		< 15	> 15
Powering	Vdc	12 ... 24	0
Max. current		40	--
Beamwidth	°	30	
F/B ratio	dB	> 20	
Wind load (@80miles/h)	N	120	
Wind load (@93miles/h)	N	165	
Mast diameter	in	0.787 ... 1.969	

*[1] The gain is automatically adjusted according to the level of output