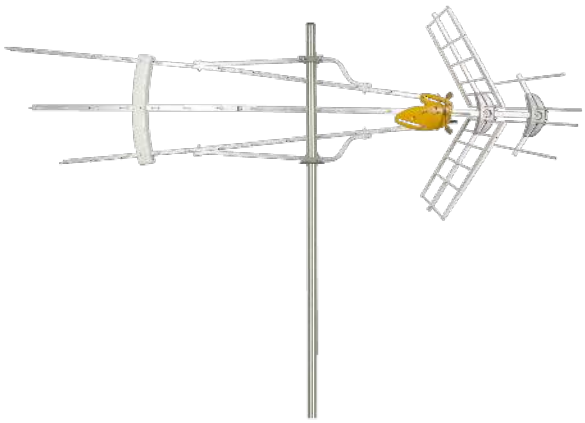
DAT BOSS MIX LR antenna BIII/UHF



Long-range Intelligent antenna with the BOSS Tech system. Specially designed for quality reception of mixed UHF/BIII under extremely difficult reception conditions thanks to its design; optimizes the rejection of interference from other bands.

The antenna design provides the base UHF structure with three elements (dipole and two reflectors) specifically designed for BIII, thus allowing a combined reception of both bands.

The antenna is provided with a high-performance switch-mode power supply to complement the BOSS system, with a compact and pleasing design.

Ref.	149883
EAN13	8424450185445

Other features	
Colour	Orange

Packaging info	
Box	1 Units
Carton	20 Units
Pallet	20 Units

Physical data	
Net weight	3,700.00 g
Gross volume	57.40 dm³
Gross weight	4,670.00 g
Width	2,105.00 mm
Height	735.00 mm
Depth	860.00 mm
Main product weight	4,004.00 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:

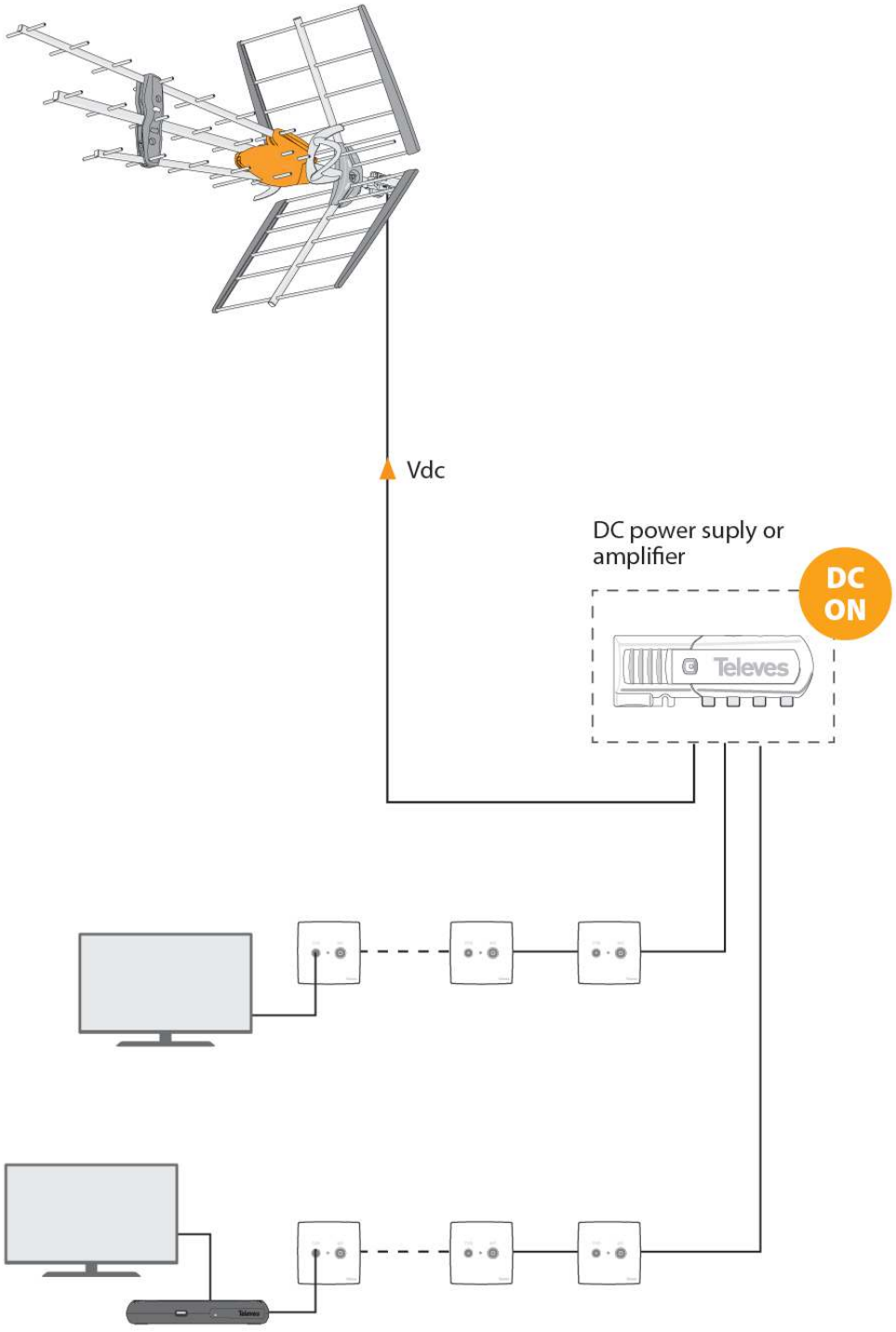
Televes transitions from the traditional silicon era into a new era of electronic component design, allowing integrated circuits to be precisely manufactured for microwave frequency bands. Utilizing “State of the Art” MMIC technology TForce is manufactured using semiconductor compounds such as gallium 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.

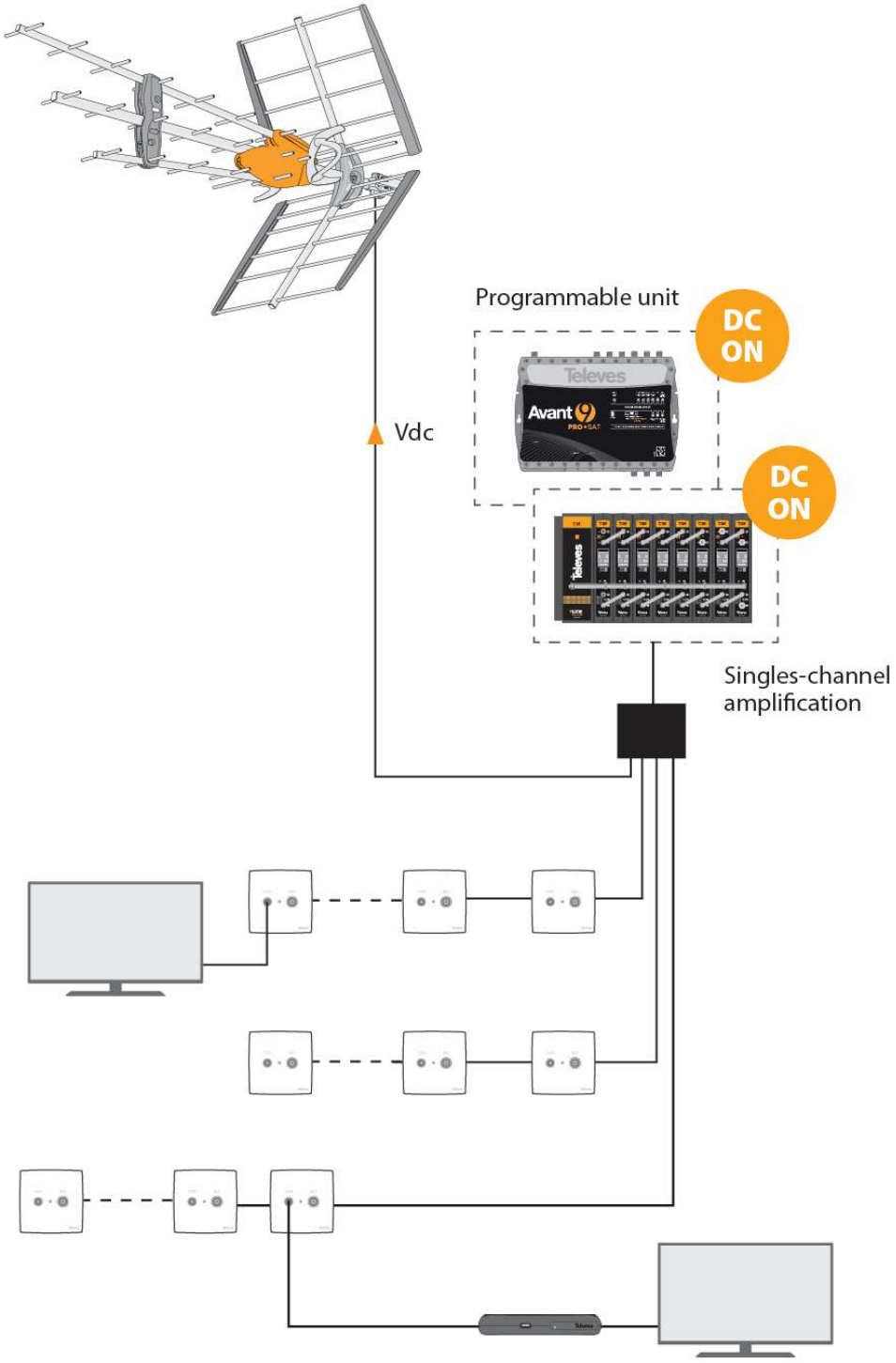
The creation of TForce with BOSS technology using MMIC components is an extraordinary milestone in the optimization of the dynamic range. The technology that allowed the reception of lost signals from distant satellites is now allowing the enhancement of the coverage range in DTT installations.

Application example

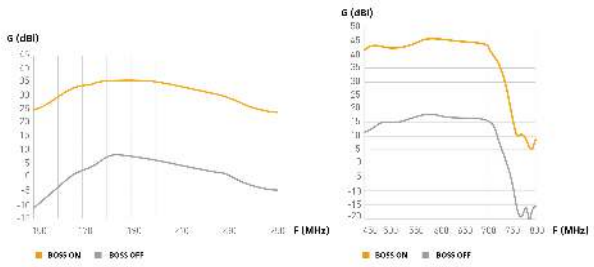
BOSS activation by means of a power supply unit or an amplifier.



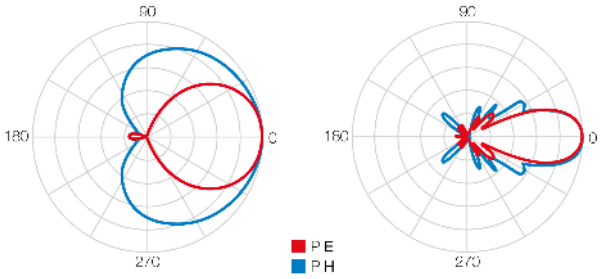
BOSS activation through headend system.



Graphic documentation



Frequency response



Radiation pattern

Mounting details

Double fixing point (top and bottom) to ensure stability.



Two fixing points (bottom and top) in order to guarantee stability

Televes®

Technical specifications : Ref. 149883

Bands		BIII		UHF	
Frequency range	MHz	174 ... 216		470 ... 698	
Channels		7 ... 13		14 ... 51	
BOSS mode		ON	OFF	ON	OFF
Gain	dBi	36.5	8.5	46	18
Output level		Auto*1	--	Auto*2	--
Noise figure		2	--	2	--
Signal level of use		< 75	> 75	< 75	> 75
Powering	Vdc	12 ... 24	0	12 ... 24	0
Max. current		40	--	40	--
Beamwidth	°	27		27	
F/B ratio	dB	> 15		> 25	
Wind load (@130Km/h)	N	141			
Wind load (@150Km/h)	N	194			
Mast diameter	mm	20 ... 50			

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

*2 The gain is automatically adjusted according to the level of output