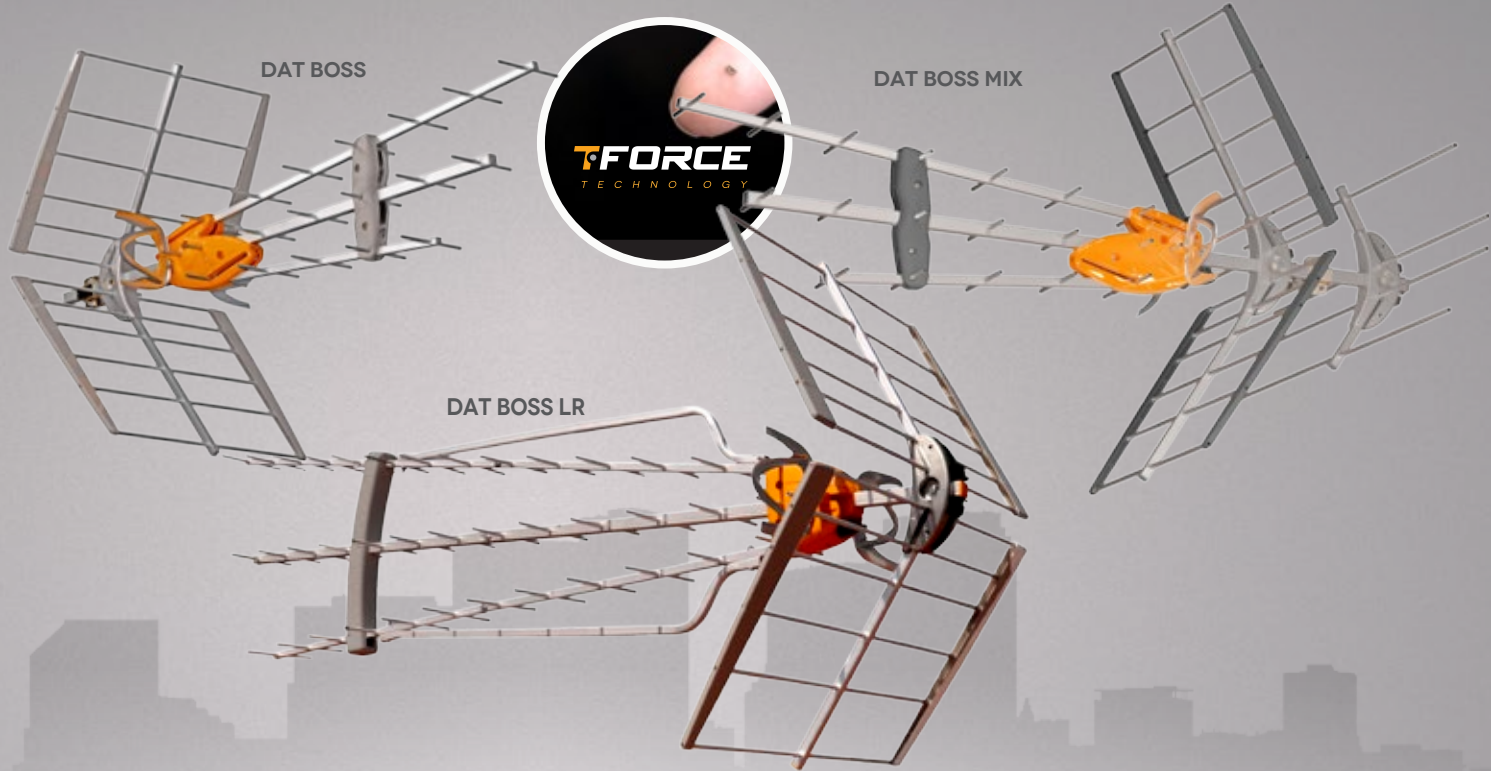


# DATBOSS

COMPLETE ANTENNA RANGE WITH **TFORCE TECHNOLOGY**

Televes goes beyond the silicon era into the new era in electronic component design, which allows building integrated circuits that work in the microwave frequency band.

TForce is based on the manufacturing of gallium arsenide (GaAs) semiconductor components, **which provides products with functionalities that are difficult to match.**



**IF THE DAT BOSS CAN'T RECEIVE IT,  
NOTHING CAN!**



HIGH DYNAMIC RANGE



WIDER DTT COVERAGE AREA



VERY HIGH GAIN



VERY LOW NOISE FIGURE



MANUFACTURED IN EUROPE

SCAN TO WATCH VIDEO



A00391

EN.TELEVES.COM/DATBOSS



100% Designed, Developed & Manufactured in Televes Corporation  
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**Televes**<sup>®</sup>

### DESCRIPTION

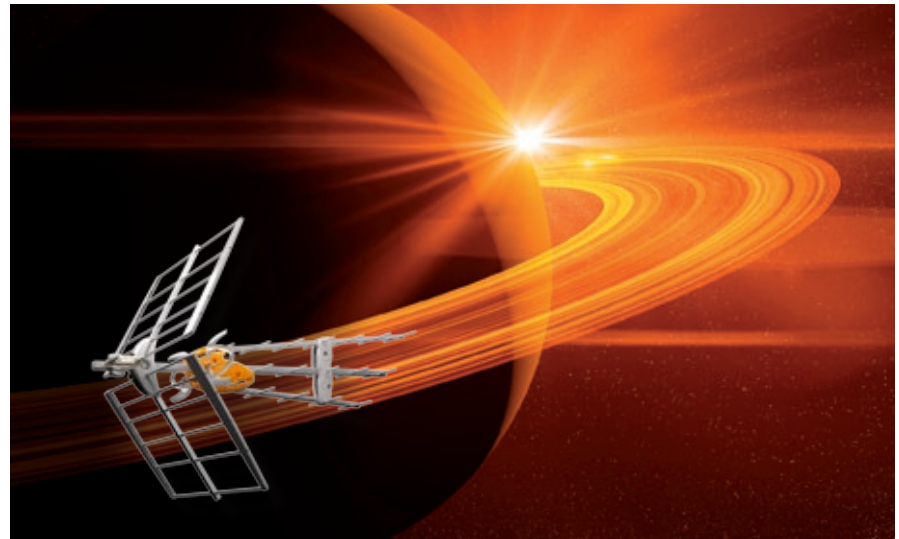
Televes redefined the antenna concept. Up until now, an antenna was just a receiver device inside a TV installation in which gain and directivity were the main features. The introduction of an intelligent device like BOSS provided the antenna with the capacity to receive very weak signals with no risk of being affected by very strong signals, fluctuations not affecting the final result: the "dynamic range" concept turns out to be the most outstanding among quality parameters.

Creation of a BOSS with TForce technology, which is based on MMIC components, is an extraordinary milestone in dynamic range optimization. A technology that allowed the reception of distant satellites' lost signals is now allowing the enhancement of the coverage range in DTT installations.

DAT BOSS with TForce technology, is a unique and universal system for the reception of terrestrial television signals: if DAT BOSS cannot capture it, nothing can.



Watch TForce video:  
[en.televes.com/tforce](http://en.televes.com/tforce)



### MAIN FEATURES

The BOSS Techsystem featured in the DAT BOSS antenna, automatically **controls the level of the received signal** (either very high or very low) in order to always ensure an optimal output level. Its new design with TForce technology, makes this intelligent device even more versatile:

#### ■ HIGH DYNAMIC RANGE:

it allows you to receive high-quality TV in a variety of critical situations, from areas where signals are very weak to installations with high reception levels.

#### ■ DTT COVERAGE ENHANCEMENT:

up to 27% higher than older models.

#### ■ A MORE STABLE 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 respects the received signal quality.

#### ■ VERY HIGH GAIN:

TForce increases the gain of the antenna in 13dB, in UHF and III Band.

#### IT STANDS OUT FOR

■ Low power consumption in intelligent mode.

■ Complet product range:

DAT BOSS

DAT BOSS MIX

DAT BOSS LR

■ Single and multiple packing



■ Filtering compliant with 1st (LTE790) or 2nd (LTE700) Digital Dividend

## DAT BOSS ANTENNA WITH TFORCE TECHNOLOGY

### DAT SERIES IN DETAIL: CHOOSE YOUR INTELLIGENT ANTENNA!

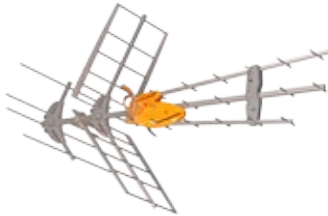
#### DAT BOSS: THE FIRST INTELLIGENT ANTENNA





REF	DESCRIPTION	EAN 13
<b>FILTERING FOR 790 MHZ</b>		
 149941	ANT.DAT BOSS UHF(C21-60) G 45dBi SINGLE PACKING	8424450185025
149942	ANT.DAT BOSS UHF(C21-60) G 45dBi MULTIPACK	8424450185049
<b>FILTERING FOR 700 MHZ</b>		
 149921	ANT.DAT BOSS UHF(C21-48) G 42dBi SINGLE PACKING	8424450185056
149922	ANT.DAT BOSS UHF(C21-48) G 42dBi MULTIPACK	8424450185063

G. UHF  
45dBi

#### DAT BOSS MIX: COMBINED ANTENNA FOR UHF AND BAND III RECEPTION

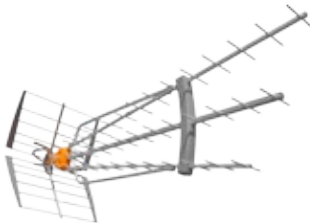




REF	DESCRIPTION	EAN 13
<b>FILTERING FOR 790 MHZ</b>		
 149441	DAT BOSS MIX (C5-12/21-60) G36,5/44dBi SINGLE PACKING	8424450185391
149442	DAT BOSS MIX (C5-12/21-60) G36,5/44dBi MULTIPACK	8424450185407
<b>FILTERING FOR 700 MHZ</b>		
 149421	DAT BOSS MIX (C5-12/21-48) G36,5/41dBi SINGLE PACKING	8424450185421
149422	DAT BOSS MIX (C5-12/21-48) G36,5/41dBi MULTIPACK	8424450185438

G. UHF  
44dBi

G. BIII  
36,5dBi

#### DAT BOSS LR: LONG RANGE UHF ANTENNA FOR EXTREME RECEPTION CONDITIONS



REF	DESCRIPTION	EAN 13
<b>FILTERING FOR 790 MHZ</b>		
 149740	ANT. DAT BOSS LR UHF(C21-60) G47dBi SINGLE PACKING	8424450185377
<b>FILTERING FOR 700 MHZ</b>		
 149721	ANT. DAT BOSS LR UHF(C21-48) G44dBi SINGLE PACKING	8424450185360

G. UHF  
47dBi

#### OTHER FEATURES

- **Intelligent mode or passive mode work options** (lack of power supply).
- DAT design, based on 3 Yagis 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.
- Antennas provided in multiple packing include both a structure folding mechanism and a cam mechanism in the antenna base to optimize **transport and storage**, while making installation easier.
- **Fully automated manufacturing** subject to strict quality control.

# IF THE DAT BOSS CAN'T RECEIVE IT, NOTHING CAN!

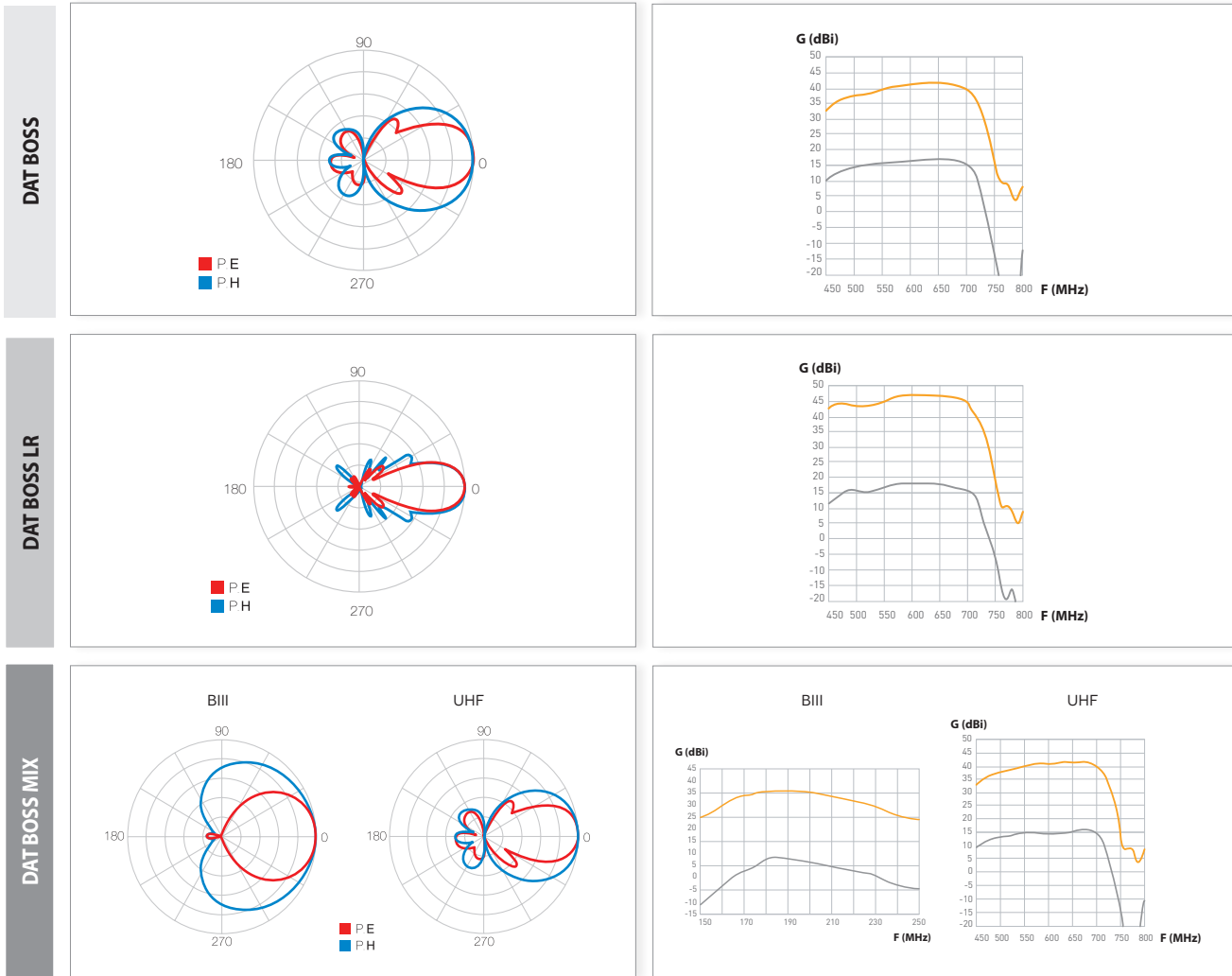
TECHNICAL SPECIFICATIONS

Ref.		DAT BOSS 149941 / 149942 149921 / 149922		DAT BOSS LR 149740 / 149721		DAT BOSS MIX 149441 / 149442 149421 / 149422			
Frequency band	MHz	470 - 790 (C.21 - C.60) 470 - 698 (C.21 - C.48)		470 - 790 (C.21 - C.60) 470 - 698 (C.21 - C.48)		174 - 230 (C.5 - C.12) 174 - 230 (C.5 - C.12)		470 - 790 (C.21 - C.60) 470 - 698 (C.21 - C.48)	
BOSS Mode		OFF (passive)	ON (active)	OFF	ON	OFF	ON	OFF	ON
Gain	dBi	17	45 max.* 42 max.*	19	47 max.* 47 max.*	8,5	36,5 max.*	16	44 max.* 41 max.*
Output level	dBμV	----	Auto*	----	Auto*	----	Auto*	----	Auto*
Noise figure	dB	----	1,2 (typ)	----	1,2 (typ)	----	1,2 (typ)	----	1,2 (typ)
Signal level (recommended)	dBμV	>75	< 75	>75	< 75	>75	< 75	>75	< 75
Supply voltage	V	0	12-24	0	12-24	0	12-24	0	12-24
Power consumption	mA	----	40 max.	----	40 max.	----	40 max.	----	40 max.
Beamwidth	°	30		27		30			
Wind load	N	120 (@ 130 Km/h) 165 (@ 150 Km/h)		141 (@ 130 Km/h) 194 (@ 150 Km/h)		120 (@ 130 Km/h) 165 (@ 150 Km/h)			

\* Gain varies automatically based on output level.

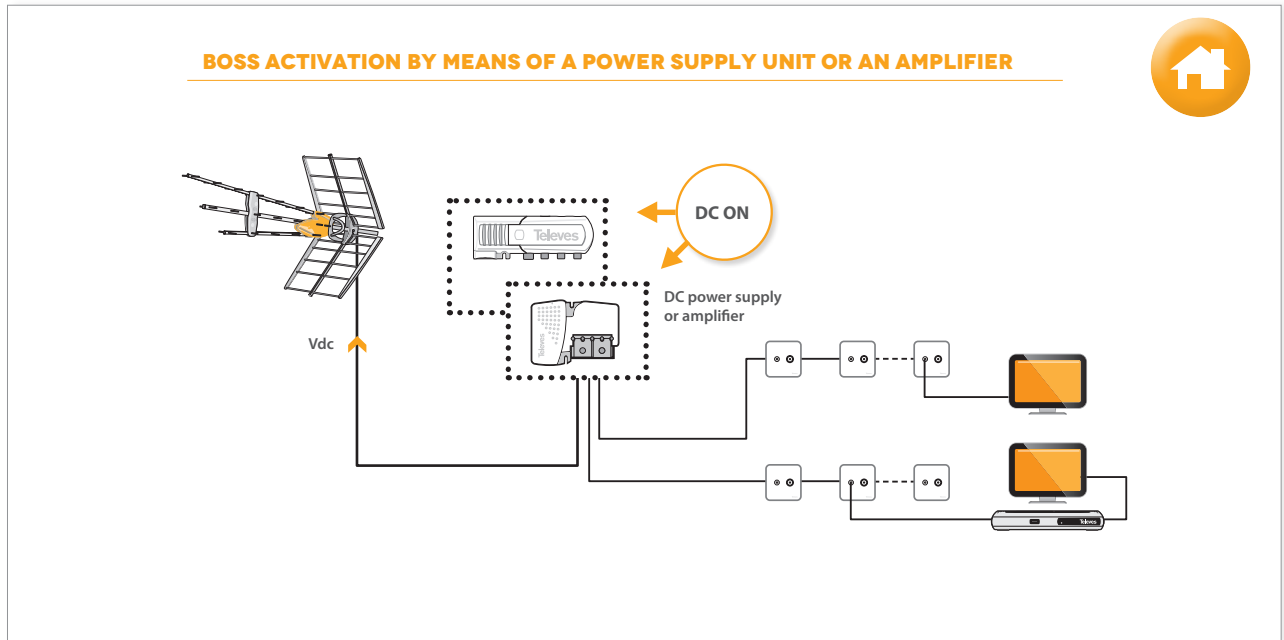
RADIATION PATTERN

FREQUENCY RESPONSE

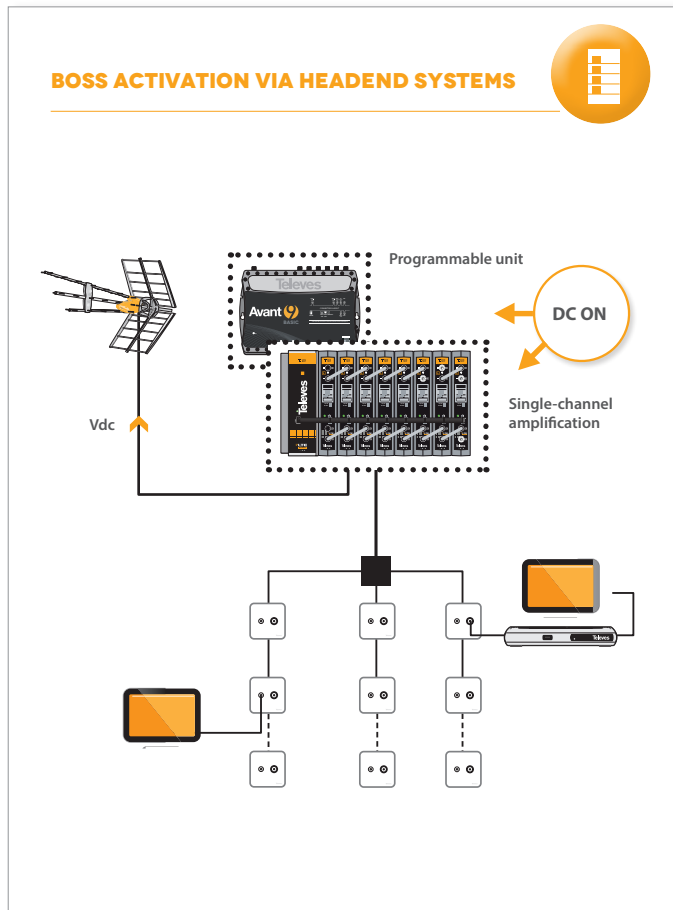


■ BOSS ACTIVATED ■ BOSS DEACTIVATED

APPLICATION EXAMPLES



APPLICATION EXAMPLES



MOUNTING SYSTEM

