

Televes

toner
cable equipment, inc.
www.tonercable.com

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If the DATBOSS CAN'T RECEIVE IT, NOTHING CAN!

Televes redefined the antenna concept. Until now, an antenna was just a receive device for 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 OTA installations.

DATBOSS with TForce technology, is a unique and universal system for the reception of Over-The-Air signals: if DAT BOSS cannot capture it, nothing can.



MAIN FEATURES

The BOSS Tech system featured in the DATBOSS 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 situations, from areas where signals are very weak to installations where they are very strong
- **OVER-THE-AIR COVERAGE ENHANCEMENT:**
up to 27% higher than legacy models
- **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
- **VERY HIGH GAIN:**
TForce increases the gain of the antenna in 13dB, in UHF and VHF HIGH
- **LTE FILTERING:**
Televes DATBOSS antennas are designed to reject LTE signals from US carriers
- **Low power consumption in intelligent mode:**
To activate the antenna intelligence, a high performance switched-mode PSU with an aesthetic design and small size is included in the kit.
- **Complete product range:**
DAT BOSS
DAT BOSS MIX
DAT BOSS LR
DAT BOSS MIX LR

DAT SERIES IN DETAIL: CHOOSE YOUR INTELLIGENT ANTENNA!



DAT BOSS: THE FIRST INTELLIGENT ANTENNA

REF	DESCRIPTION	EAN 13
149983	DAT BOSS + PSU 12V	8424450185070



DAT BOSS MIX: COMBINED ANTENNA FOR VHF HIGH AND UHF RECEPTION

REF	DESCRIPTION	EAN 13
149483	DAT BOSS MIX + PSU 12V	8424450185414



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

REF	DESCRIPTION	EAN 13
149783	DAT BOSS LR + PSU 12V	8424450185384



DAT BOSS MIX LR : COMBINED LONG RANGE ANTENNA FOR VHF HIGH AND UHF RECEPTION

REF	DESCRIPTION	EAN 13
149883	DAT BOSS MIX LR + PSU 12V	8424450185445



- **Intelligent mode or passive mode options** (power supply).
- 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 impulse noise; grounded for protection against electrical discharge.

- **Manufactured in aluminum** (corrosion resistant) for a long service life.
- Antennas provided in flat packaging includes both a 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.

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TECHNICAL SPECIFICATIONS: DATBOSS ANTENNAS

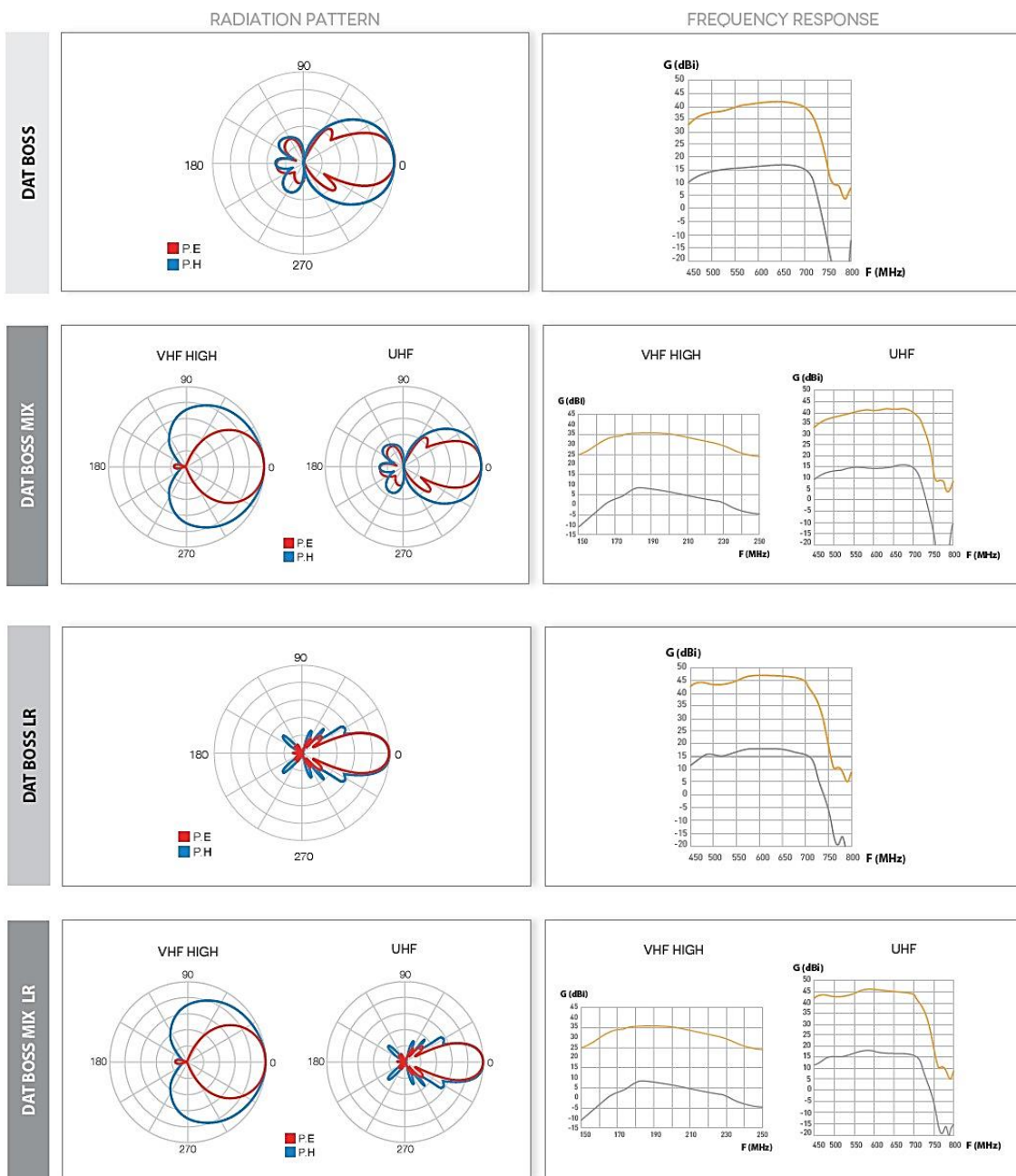
Ref.		DAT BOSS 149983		DAT BOSS MIX 149483				DAT BOSS LR 149783		DAT BOSS MIX LR 149883			
Operating band	MHz	470 - 698 (C.14 - C.51)		174 - 216 (C.7 - C.13)		470 - 698 (C.14 - C.51)		470 - 698 (C.14 - C.51)		174 - 216 (C.7 - C.13)		470 - 698 (C.14 - C.51)	
BOSS Mode		OFF (passive)	ON (active)	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON
Gain	dBi	17	42 max.*	8.5	36.5 max.*	16	41 max.*	19	47 max.*	8.5	36.5	18	46 max.*
Output level	dBμV	---	Auto*	---	Auto*	---	Auto*	---	Auto*	---	Auto*	---	Auto*
Noise figure	dB	---	1.2 (typ)	---	2 (typ)	---	2 (typ)	---	2 (typ)	---	2 (typ)	---	2 (typ)
Signal level (recommended)	dBmV	>15	< 15	>15	< 15	>15	< 15	>15	< 15	>15	< 15	>15	< 15
Power Supply	V=	0	12-24	0	12-24	0	12-24	0	12-24	0	12-24	0	12-24
Consumption	mA	---	40 max.	---	40 max.	---	40 max.	---	40 max.	---	40 max.	---	40 max.
Beamwidth	°	30		30				27		27			
Wind load	N	120 (@ 80miles/h) 165 (@ 93miles/h)		120 (@ 80miles/h) 165 (@ 93miles/h)				141 (@ 80miles/h) 194 (@ 93miles/h)		120 (@ 80miles/h) 165 (@ 93miles/h)			

* Gain varies automatically based on output level.

TECHNICAL SPECIFICATIONS: POWER SUPPLY (INCLUDED IN THE KIT)

Ref.	550104		
Frequency margin	MHz	5-862	
Through loss (Typ.)	dB	1 Out	Main: 1.5 / Aux: ---
		2 Out	Main: 4 / Aux: 4
Output voltage	V=	12 ± 1.5	
Max. output current	mA=	220	
Min. output current	mA=	30	
Mains voltage	V~ /Hz	108 - 132 / 50 - 60	
Max. consumpt	mA~/W	65 / 3.6	
Protection level		IP 20	
Working temperature	°F	14 ... +113	
Dimensions	in	29.55 x 19.76 x 6.14	
Working temperature	lb	0.68	





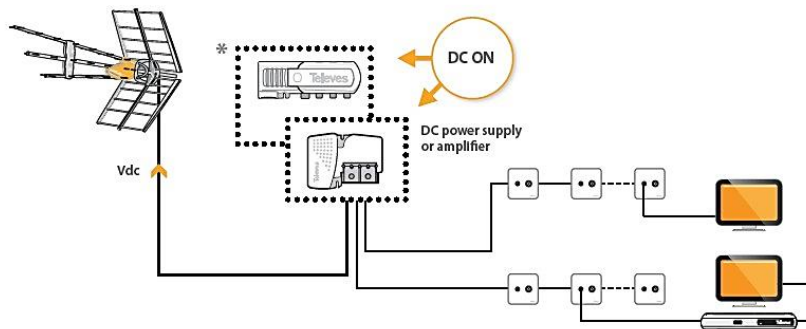
BOSS ACTIVATED BOSS DEACTIVATED

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APPLICATION EXAMPLES

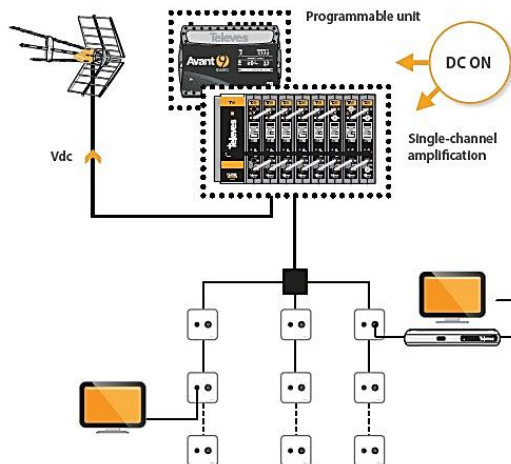
BOSS ACTIVATION BY MEANS OF A POWER SUPPLY UNIT OR AN AMPLIFIER



* Included in the KIT

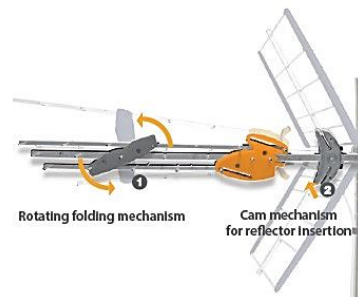
APPLICATION EXAMPLES

BOSS ACTIVATION VIA HEADEND SYSTEMS



MOUNTING SYSTEM

DAT BOSS & DAT BOSS MIX



DAT BOSS LR & DAT BOSS MIX LR

