DIGITAL
TELEVISION
SOLUTIONS

THOMSON
BROADCAST

DREAMLINE II

UHF DIGITAL TV TRANSMITTER

AIR COOLED

5 W - 300 W
RMS

ATSC / DVB-T / DVB-T2 / ISDB-T

High level of technical performance, friendly utilization and compactness

www.thomson-broadcast.com

PHENIXYA

THOMSON BROADCAST'S DNA

Thomson Broadcast solutions are recommended for the next generation standard migration.

Backed by more than 60 years experience in transmission systems and hundreds of systems deployed all around the world, **Thomson Broadcast** has paved the way for smooth and cost-efficient digital switchover -DSO- to benefit from the digital dividend, offering higher quality content and generate potentially greater income.

Thomson Broadcast solutions are recommended for the next generation standard migration.

Thomson Broadcast is the right partner for transmission turnkey systems. From the very beginning of the migration project, **Thomson Broadcast** can assist governments or broadcasters in the current analog and digital network diagnosis, in the technical and technological choices, in coverage studies and most importantly, in financial engineering.

Thanks to undeniably gained valuable experience in operational deployments, **Thomson Broadcast** offers a full range of end-to-end professional services to ensure global compatibility and continuous television signal availability.

WE PROVIDE COMPLETE TELEVISION SOLUTIONS

PROJECT SUPPORT

Consulting services / Financial engineering / Project management / Coverage studies / Site surveys / Energy & system engineering

PRODUCTS

Complete TV transmitter range / All digital standards, High-medium & low-power range, RF auxiliaries / Head-ends / Antennas & masts / Network management system

SERVICES

Installation / Commissioning / Training / Service Level Agreement (SLA)

THOMSON BROADCAST

DREAMLINE II

A new concept of low power transmitters combining high level of technical performance, friendly utilization and compactness.

- ✅ **Agile on the UHF and VHF band**
- ✅ **AC or DC power supply**
- ✅ **Flexible management of TS / ASI inputs**
- ✅ **Real-time DAP function**
- ✅ **Support for iso and multi-frequency modes**
- ✅ **120w true broadband doherty in 1 RU design**
- ✅ **Saving the configuration on SD card**
- ✅ **Self-protected against overvoltage, vswr, excess T °**
- ✅ **Replaceable fan without emission stop**

Advanced MPLP function

In addition to the DVB-T / DVB-T2 dualcast function, the advanced function of stream division or Multiple Physical Layer Pipe (MPLP) is supported by the transmitter which then offers an integrated redundancy management option to the radio market. small power, between 5W and 300W, offering an all-in-one solution.

Energy efficiency

Special attention has been paid to consumption to allow easier use and at reduced costs with solar panels for example. The 120W model and above benefits from a very wideband Doherty technology amplifier, a unique concept on the market at this power level, offering compactness and high performance.

Guaranteed performance for business continuity

The Dreamline II range presents unmatched technical characteristics, until now only available in high power equipment. These technical advantages allow Thomson Broadcast to launch on the market the first low power range with such technical advantages and with a multitude of on-board options. A pioneer in Digital Adaptive Precorrection or DAP, having received numerous awards, Thomson Broadcast guarantees optimal RF signal quality and stability. The DAP function compensates in real time for variations in performance due to changes in environmental conditions, aging of components or even reduction in output power. It corrects linear and non-linear distortions generated by output filters and amplifiers.

Extreme compactness

The extreme compactness of the Dreamline II transmitters minimizes operational costs and makes this equipment perfectly suited for easy commissioning.
The equipment can be integrated into a 1+1 device or a N+1 system.

Input flexibility

2 Transport Stream or TS streams can be placed on the IP inputs as well as on the ASI inputs. These double inputs secure the signal transmission while switching from one to the other takes place automatically without interrupting the program.

A frequency-agile product

A change of channel is quickly made in the entire UHF band and this, with a very simple control, either thanks to the interface on the front panel of the equipment, or via the on-board web server.
All the parameters relating to the output frequency, but also to the output power, are then automatically adjusted without any other intervention.

Support for SFN and MFN

The Dreamline II transmitter is the ideal solution, both for MFN or multi-frequency networks and SFN, or iso-frequency networks.

Remote operations

The transmitter includes as standard an SNMP agent, a logbook, and a web server for simplified intuitive remote monitoring and management. These tools make it possible to give in real time, a complete state of the transmitter as well as a precise identification of defects to carry out a diagnosis and a rapid maintenance operation.

An optional integrated TNT receiver

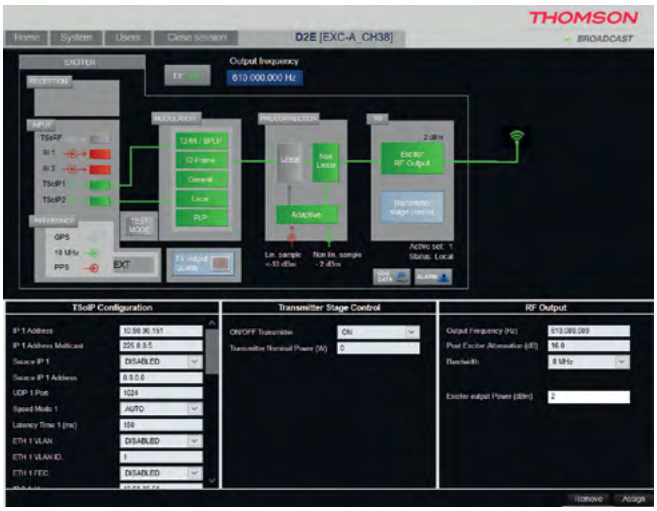
The transmitter can then function as a rebroadcasting transmitter in regenerative mode. It thus receives the DVB-T/DVB-T2 signal in UHF or VHF band 3 and broadcasts the same signal in UHF after correction of linear and non-linear distortions.

Optimized reduced maintenance

Small power distribution equipment is often installed in places that are difficult to access. In order to meet these access constraints, the Dreamline II range has been designed to offer simplified maintenance procedures and to avoid costly recurring maintenance operations without any test equipment.
The “drop and forget” concept takes on its full significance.

Intuitive normal and remote control and monitoring

For rapid remote monitoring, each Dreamline II includes, as a standard, a web server and SNMP agent to remotely provide a complete real-time display of transmitter status as well as precise identification and location of the transmitter and of any fault. This monitoring interface is also accessible locally via a reliable RJ45 LAN port. Control and monitoring can be done with any standard device, including smartphones, tablets, or personal computers. The web interface has been designed internally in such a way that it can interact with a complete transmission Network Management System such as the **Thomson Broadcast Manager** or any other existing system.



CHARACTERISTICS OF DREAMLINE II

Specifications

DREAMLINE II UHF SD TRANSMITTER RANGE*					
Output power before DVB-T/DVB-T2 filter (W RMS)	5W RMS	25W RMS	100W RMS	200W RMS	300W RMS
Dimensions 19"/48.26 cm	1RU	1RU	1RU	1RU + 2RU	1RU + 2RU

DREAMLINE II VHF SD TRANSMITTER RANGE*					
Output power before DVB-T/DVB-T2 filter (W RMS)	-	25W RMS	100W RMS	-	300W RMS
Dimensions 19"/48.26 cm	-	1RU	1RU	-	1RU + 2RU

*DD or 1+1 : provide a Control Unit of 2RU in +

Options :
- GPS
- Redundancy 1+1, N+1
- Regenerative rebroadcasting transmitter

Input signal
- Dual ASI and IP inputs
- Manual or automatic switching between inputs without interrupting broadcasting

Frequency range

UHF	470 - 800 MHz

Signal bandwith

Modulation	Signal bandwith
DVB-T/H	6/7/8 MHz
DVB-T2	5/6/7/8 MHz
ISDB-T	6/8 MHz
ATSC	6 MHz

Power supply

Mains power	Single phase : 90V to 264V or 48v DC
Frequency	47 or 63Hz (±3Hz)
Power factor at nominal value	> 0,95

THOMSON

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REVOLUTIONIZING THE BROADCAST EXPERIENCE

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