

# SAGEM DIGITAL TV

## Transmitter/Re-transmitter Transposer



- Full DVB-T standard
- SFN and MFN operation
  - Hierarchical coding
- Output power : from 5 to 2000 W
  - UHF frequency range
- All configurations : Single or Dual drive, passive reserve
  - High level of redundancy and flexibility
    - LDMOS technology
    - Forced air cooled
  - Integrated SNMP interface
- Compliant with DVB-H standard





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## Transmitter/Re-transmitter Transposer

For more than 30 years now, SAGEM's expertise has been behind the implementation of TV transmitters all around the world. The new family of digital TV transmitters benefits from SAGEM experience in the design, manufacturing and installation of analog TV transmitter.

SAGEM's range of digital TV transmitters according to the DVB-T is designed to meet the needs of continuously evolving broadcasting market and guarantees quality and reliability in small and medium power transmissions.

Different configurations of equipment are available : Transmitter, Re-transmitter (including a Re-modulator), Transposer in Single Drive, Dual Drive or passive reserve configuration. Thanks to a flexible and modular architecture, operational cost of the network can be reduced.



### TECHNICAL FEATURES

#### GENERAL

- Coding and modulation : ETS 300744
- Frequency range : band 4 and 5
- Bandwidth : 7 and 8 MHz (6 on request)
- Output connector : N , EIA 7/8" and 1"5/8"

#### MAIN CHARACTERISTICS

- Input signals : ASI
- Power stability : < 0.5 dB
- Group delay : < 120 ms
- A/F response : ±0.5 dB
- Shoulder ≥ 36 dB
- MER : ≥ 33 dB
- END : ≤ 0.5 dB

#### ENVIRONMENT

- AC Power : 400V ±15% and 230V±15%
- Efficiency : 10%
- Operating temperature : -10° to 50°C
- Guaranteed temperature range : 0 to 45°C
- Relative humidity (non condensing) : 95%
- Altitude : 3000 m

TRANSMITTER	DTH 2000	DTH 1500	DTH 1000	DTH 600	DTH 300					
RE-TRANSMITTER	DRH 2000	DRH 1500	DRH 1000	DRH 600	DRH 300					
Output power	2000 W	1500 W	1000 W	550 W	280 W					
Configuration	Single drive, Dual drive, Passive reserve									
Amplifier unit	8 x UD250	6 x UD250	4 x UD250	2 x UD250	1 x UD250					
Power supply unit	8	6	4	2	1					
Cooling system	Air cooling system									
RF connector	EIA 1"5/8	EIA 1"5/8	EIA 1"5/8	EIA 1"5/8	EIA 7/8					
Dimensions : Nb of 42U, 19-inch rack (*)	2	1	1	1	1/7U					

TRANSMITTER			DTX 1200	DTX 600	DTX 300					
RE-TRANSMITTER			DRX 1200	DRX 600	DRX 300					
Output power			1200 W	600 W	300 W					
Configuration			Single drive, Dual drive, Passive reserve							
Amplifier unit			12 x UD100	6 x UD100	3 x UD100					
Power supply unit			12	6	3					
Cooling system			Air cooling system							
RF connector			EIA 1"5/8	EIA 1"5/8	EIA 7/8					
Dimensions : Nb of 42U, 19-inch rack			2	1	1					

TRANSMITTER						DTC 120	DTC 60	DTC 30	DTC 15	
RE-TRANSMITTER						DRC 120	DRC 60	DRC 30	DRC 15	
Output power						120 W	60 W	30 W	15 W	
Configuration						Single drive or Passive reserve, other on request				
Cooling system						Air cooling system				
RF connector						EIA 7/8	N	N	N	
Dimensions : Nb of U, 19-inch rack (*)						6	6	6	6	

TRANSPOSER						DPC 120	DPC 60	DPC 30	DPC 15	DPC 0.1
Output power						120 W	60 W	30 W	15 W	0.1 W
Configuration						Single drive or Passive reserve				
RF connector						EIA 7/8	N	N	N	N
Dimensions : Nb of U, 19-inch rack (*)						4	4	4	4	1

(\*) : Single drive configuration

