SDT 303 ARK-1 ATSC

Analog and Digital Transmitter
36000W ps/12000W rms

> SDT 303 ARK-1
With Liquid Cooling and Dual Driver Option

Main Features

- Compliant A153 ATSC-mh Standard
- UHF/VHF fully agile Transmitter
- Integrated GPS Receiver.
- Integrated SNMP management with events store.
- Integrated GBE interface.
- Output Power remotely adjustable via SNMP with high dynamics, in step of 0.1 dB.
- Soft-start Circuit.
- Adaptive digital linear pre-correction.
- Digital non linear pre-correction with automatic curves loading for each standard channel and power levels.
- Wide Range Power Supply 90-264 V AC in fuse-free configuration (SW Standby Switch).
- Typical MER: > 36 dB at all power levels and in all channels.
- Quick-acting protection circuits against over power and direct/reflected power.
- Protection against reflected power with automatic fold-back.
- Hot swappable modules.
- Graceful power degradation.

TRANSMITTER — SDI > MOD > RF

TRANSMITTER — ASI > MOD > RF

NTSC ATSC ATSC MH

The SDT ARK-1 is an ATSC Digital transmitter that features Digital Linear and Not Linear Pre-correction.

Moreover, it uses the very advanced SWDT® (Software Defined Transmitters) technology, typical of this series of products, which allows a complete control of the system through various ways: remotely, using a clean contact; via SNMP commands; via TCP/IP, using the Web graphic interface.
To enable the transmission of MH mode can be done simply setting up the PID of MHE packets.

An innovative firmware allows zero error signals processing thanks to internal 32 bit architecture.

Functional interfaces are available for total remote control of the apparatus by means of serial protocols or TCP/IP ports. Thanks to the internal Web server the apparatus can be easily monitored and configured using a LAN connection and a standard Web browser. Moreover, the built-in SNMP server allows performing all types of automated remote control.

The liquid cooling system is equipped with a redundant pump circuitry to garanted the whole functionality even if one pump fails.

MODEL-SPECIFIC DATA

Model	Output band	Number of amplifiers	Working class	Dimensions	Digital output power (rms) without filter (Shoulders -36 dB @ F_0 ± 4.3 MHz) ATSC/ATSC-MH	Nominal analog output power (p.s.) NTSC
SDT 303UM-W ARK-1	UHF	12	AB	4 X 40 RU	12000 W	36000 W
SDT 303TM-W ARK-1	VHF (III)	12	AB	4 X 40 RU	12000 W	36000 W
SDT 303FM-W ARK-1	VHF (I)	12	AB	4 X 40 RU	12000 W	36000 W

Specifications and characteristics are subject to change without notice.

GENERAL	
Working Class AB	SDT 303 ARK-1
Cooling	Liquid Cooled
Local control and monitoring	Extensive front panel control
Remote control and monitoring	Local terminal on RS-232 Web based Java interface Telnet access via Ethernet SNMP
Operating temperature	-10°C to +45°C
Maximum relative humidity	90%, non condensing
Maximum operating altitude	2500 m a.s.l. (> 2500 m on request)
Mains power supply	220 V AC (3 ph)

12000 W

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