

SDT 501 ARK-1 ATSC

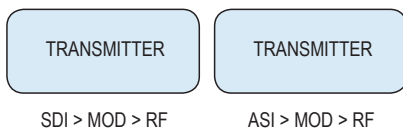
Analog and Digital Transmitter
700W ps/250W rms



>SDT 501 ARK-1

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.



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 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.

MODEL-SPECIFIC DATA

Model	Output band	Digital output power (rms) without filter ATSC/ATSC-MH	Nominal analog output power (p.s.) with dual mode option
SDT 501UB ARK-1	UHF	250 W	700 W
SDT 501TB ARK-1	VHF (III)	250 W	700 W
SDT 501TB ARK-1	VHF (I)	250W	700W

Specifications and characteristics are subject to change without notice.

GENERAL

Working Class AB	SDT 501 ARK-1
Cooling	Forced air
Local control and monitoring	Extensive front panel control
	Local terminal on RS-232
Remote control and monitoring	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	90-260 V AC
Dimensions	15 RU (19" rack), 400 mm