

SDT 603 ARK-1 ATSC

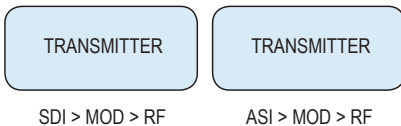
Analog and Digital Transmitter 72000W ps/24000W rms



> SDT 603 ARK-1
With Dual Driver Option and Liquid Cooling

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.



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 guaranteed 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 ₃ ± 4.3 MHz)	Nominal analog output power (p.s.)
					ATSC/ATSC-MH	ATSC
SDT 603UM-W ARK-1	UHF	24	AB	6 X 40 RU	24000 W	72000 W
SDT 603TM-W ARK-1	VHF (III)	24	AB	6 X 40 RU	24000 W	72000 W
SDT 603FM-W ARK-1	VHF (I)	24	AB	6 X 40 RU	24000 W	72000 W

Specifications and characteristics are subject to change without notice.

GENERAL	
Working Class AB	SDT 603 ARK-1
Cooling	Liquid Cooled
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	220 V AC (3 ph)



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