

Digital Audio Broadcasting Transmitter up to 4800W rms



> SDT 103 NRK-1

> SDT 103 W NRK-1
Liquid Cooled Version with
Dual Driver OptionDAB
DAB+

T-DMB

Main Features

- Supported standards: DAB, DAB+, T-DMB
- Frequency range: VHF (III) 170 MHz to 254 MHz, L band.
- DAB-Modes: I, II, III, IV.
- Network type: MFN, SFN.
- Bandwidth 1.536 MHz.
- Reference Standard: ITU-T G703-G704, EN 300401, EN 300799, EN 302077-2.
- DAB Signal Input : ETI (NI) 2.048 MHz or ETI (NA), according to ETSI EN 300 799 seamless switching without broadcast interruption, Input Connectors: BNC (F), 75 Ω . EDI (Encapsulation of DAB Interface) according to ETSI TS 102 693
- Integrated GPS Professional Receiver.
- Integrated SNMP management with events store.
- Integrated GbE interface.
- Digital adaptive linear pre correction.
- Digital non linear adaptive precorrection with automatic curves loading for each channel and power levels.
- Wide Range Power Supply 90-264 V AC (3 phase) in fuse-free configuration (SW Standby Switch).
- Typical MER: > 34 dB at all power levels and in all channels with shoulder distance > 37 dB without mask filter.
- Quick-acting protection circuits against overpower and direct/reflected power.
- Protection against reflected power with automatic fold-back.

The SDT ARK-DAB transmitters features a built-in SFN adapter and very advanced SWDT® (Software Defined transmitters) technology, typical of this series of products.

The SWDT® technology allows selecting parameters in various ways: remotely, using a clean contact; via SNMP commands; via TCP/IP, using the Web graphic interface.

An innovative firmware allows zero error signal processing thanks to an 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 SNMPv2 server allows performing all types of automated remote control.

The high reliability of the transmitter family makes it ideal for basic broadcasting coverage in urban and metropolitan areas, for example. Various redundancy concepts such as dual drive, passive standby or N+1 can be implemented to maximize availability.

MODEL-SPECIFIC DATA

Model	Output band	Number of amplifiers	Working class	Dimensions	Kind of amplifiers	Output connector	Cooling	Num. Meter board	Shoulders @ $F_0 \pm 0.770$ MHz DAB	DAB P Nom W rms MER> 37	DAB P Nom W rms MER> 34
SDT 103TM NRK-1	VHF (III)	4	AB	40 RU	SCA202TB	7/8	Air	1	-37	3200 W	4800W
SDT 103TM-W NRK-1	VHF (III)	4	AB	40 RU	SCA202TB-W	7/8	liquid	1	-37	3200 W	4800W

*Specifications and characteristics are subject to change without notice.

GENERAL

Model	SDT 103-W NRK-1
Cooling System	Forced Air or Liquid Cooling System
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