ES-DAB SERIES

dab+ SRT | DAB+ TRANSMITTERS · 10 W – 5 KW

The evolution of DAB+ transmitters.

Wideband Doherty amplifiers, built-in SRT decoder and GPS.
Installed on Europe's leading networks.

DISCOVER TELANTEL





Wideband Doherty

170 to 240 MHz with no tuning, efficiency up to 45 %.

EDI over the Internet

Built-in SRT decoder receives the EDI stream over the public Internet.

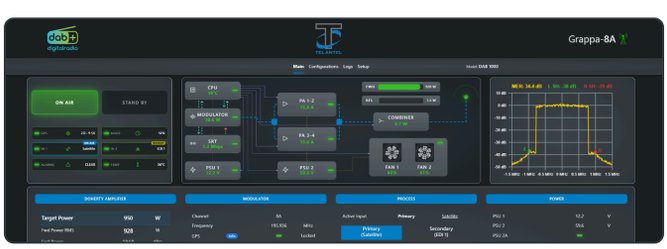
SFN ready

High-precision internal GPS-Glonass receiver, 10 MHz and 1PPS.

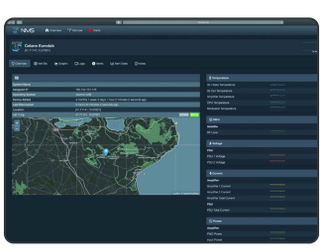
Remote control

Web GUI and SNMP; touch display on the front panel.

CONTROL AND MONITORING



Transmitter interface
Status, spectrum and amplifier parameters



NMS · Network
Every site on the map



NMS · Trends
Charts up to two years back

OUTPUT POWER 10 W | 30 W | 50 W | 100 W | 150 W | 250 W | 500 W | 700 W | 1 kW | 2 kW | 3 kW | 4 kW | 5 kW

ES-DAB DAB+ TRANSMITTERS

TECHNICAL SPECIFICATIONS



NMS · NETWORK MANAGEMENT SYSTEM

Monitors your network in real time: over SNMP it remotely reads every connected transmitter's parameters and charts their trends up to two years back.

SNMP real-time parameters · **Trends** up to 2 years · **Alarms** e-mail and Telegram

MODULATION

STANDARDS	DAB / DAB+
FREQUENCY	170 to 240 MHz (Band III)
DAB MODE	I, II, III, IV
NETWORK	MFN, SFN
BANDWIDTH	1.536 MHz

ETI INPUTS

G.703	2 inputs, BNC 75 Ω
FORMATS	NI (G.703), NA5376 and NA5592 (G.704), automatic detection
RATE	2048 kbps ± 50 ppm
OUTPUT	1 ETI output, BNC 75 Ω

IP INPUTS

PORTS	2 × 10/100BASE-T Ethernet, RJ45
PROTOCOLS	IP, RTP, UDP, IGMP v2 and v3
VLAN	ID 1 to 4094, IEEE 802.1Q
EDI	EDI de-encapsulation (TS 102 693)
SRT	Built-in SRT decoder to receive EDI over the Internet

SATELLITE (OPTION)

INPUT	950 to 2150 MHz, F connector 75 Ω
SENSITIVITY	−62 to −25 dBm
STANDARDS	DVB-S, DVB-S2
GSE	GSE de-encapsulation (TS 102 606)

CONTROL

NETWORK	1 × 10/100BASE-T Ethernet port
INTERFACES	Web GUI, SNMP
DISPLAY	Touch LCD on the front panel

RF PERFORMANCE

MODELS	ES-DAB 10/30/50/100, 150/250/500, 700/1000, 2000/3000/4000/5000 (10 W to 5 kW)
AMPLIFIER	Wideband Doherty, 170 to 240 MHz with no tuning
EFFICIENCY	Up to 45 % at full power
MER	34 dB at full power, 38 dB typical at half power
PRECORRECTION	Linear and non-linear; continuous, single or static mode
IMPEDANCE	50 Ω; power foldback above maximum VSWR
RF OUTPUT	N, 7/16, EIA 7/8″, EIA 1 5/8″

SYNC AND CONNECTIONS

GPS	High-precision internal GPS-Glonass receiver, N connector
FRONT	RF monitor
REAR	RF out, 2 × EDI, LAN, 2 × ETI in, ETI out, 10 MHz in/out, 1PPS in/out, GPS (N), satellite (F)

PROTECTIONS

ALARMS	High VSWR, temperature and current, overvoltage; automatic reset

MECHANICAL AND ENVIRONMENT

SIZE	2U, 4U, 24U or 36U, depending on model
POWER SUPPLY	230 V AC ± 5 %, 50 Hz; 230 V three-phase
COOLING	Forced air
ENVIRONMENT	−10 to +45 °C, 95 % relative humidity, up to 2500 m a.s.l.
COMPLIANCE	RoHS 2011/65/EU · RED 2014/53/EU · LVD 2014/35/EU · EMC 2014/30/EU

Telantel S.r.l. | Designed and made in Italy

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Specifications are subject to change without notice.