



DABSTOR-€

ETI Monitor



DABSTOR-€ monitors the DAB Ensemble Transport Interface data stream at the multiplexing centre, or transmitter site.

The system can be connected anywhere in the ETI 2Mbits/s signal (NA, G.704 and NI, G. 703) to be monitored, or it can be connected in parallel with the signal path.

All Audio programmes in the data stream are monitored and an individual programme can be extracted and decoded.

The Audio signal can be output as an analogue, or optionally, as a digital (AES3) signal. A headphone output is also available.

All available programmes are shown in list form on the front display. Selecting an audio programme displays all relevant information for the currently selected programme.

Two relays and six GPIO contacts are provided for external signalling of alarms. Additionally, up to 7000 alarms with date and time can be stored in the system, without the need for a PC.

DABSTOR-€ is controlled via the integrated LAN interface. SNMP enables **DABSTOR-€** to be integrated into a network management system.

The ability to extract a single programme from the DAB Ensemble provides a cost-effective Audio programme feed for non-DAB applications, without the need to use additional transmission lines, for example: FM Audio programmes can be fed to transmitter locations or inserted into cable networks.

Windows PC Software provides detailed alarm monitoring. The content of the ETI data stream can be displayed and the internal alarm memory can be read. All relevant information, e.g. 2Mbits/s alarms, number of sub-channels, types of sub-channels, etc., can be displayed. Software is included for managing single and multiple **DABSTOR-€** ETI Monitors via LAN.

Highlights

- Ensemble Transport Interface monitoring (ETI-NA and ETI-NI)
- Integrated DAB & DAB⁺ Audio Decoder
- Simultaneous monitoring of all Audio sub channels
- Monitoring of one Audio signal (extendable with expansion units)
- Analogue and digital AES3 output
- Headphone output
- Two Relays and six GPIO contacts for external signalling
- Integrated audio level monitoring
- Integrated alarm memory for up to 7000 alarms, with date and time
- Control and status via LAN
- Configuration & monitoring software for single and multiple ETI Monitors
- SNMP V2

Specifications

ETI Interface

Ensemble Transport Interface

(ETSI ETS 300 799)

ETI (NA, G.704) ⁵⁵⁹²

ETI (NA, G.704) ⁵³⁷⁶

ETI (NI, G.703)

E1

2.048 Mb/s G.703/G.704 (

Connectors

75Ω BNC with loopback connector

DAB-Modes

I, II, III

Audio Decoding

DAB

ISO/MPEG Layer II (ETSI EN 300401)

DAB+

MPEG-4 HE-AAC V2 (ETSI TS 102 563)

Sampling Frequencies

DAB: 24kHz, 48kHz

DAB+: 16kHz, 24kHz, 32kHz, 48kHz

Audio Output

Electrical, balanced (XLR) AES/EBU

Professional Headphone output

Level

-3dB to +9dB (configurable)

Level Monitoring

Selectable level threshold and monitoring interval

Control and Management

Windows software for control and status via LAN

Software supplied for single and multiple DABSTOR-E units

Alarms

2 Programmable Relays

6 Programmable GPIO

SNMP V2

Physical

Chassis

1U rack-mount or desktop

Dimensions

440mm (w) x 43mm (h) x 250mm (d)

Weight

2kg weight

Power

Power Supply

90V – 253V AC

Power Consumption

Less than 15W

Environment

Operating Temperature

0° to 65° C

Storage Temperature

-20° to 70° C

Humidity

0 to 95% non-condensing

The screenshot displays the DABSTOR-E software interface, which is a Windows-based application. The main window is titled 'PC ONLINE' and contains several panes. On the left, there is a 'Decoder Status' pane showing 'Mode: DAB', 'Dual Channel', '48 kHz', and 'Rate: 96,0 kbit/s'. Below this is an 'ETI Status' section with 'Signal' and 'Sync' indicators, and 'Framing' set to 0. The 'Service Organization' pane on the right shows a tree view of services, including 'Ensemble D001: Bayern Digital R' and 'Service D001: Bayern 1'. At the bottom, there is a 'Subchannels' table with columns for Status, Errors, SubChId, Type, Prot. Level, SAD, Size, Rate, Mode, Freq, and Service. The table lists 8 subchannels, all with a status of 'OK' and various audio parameters.

Status	Errors	SubChId	Type	Prot. Level	SAD	Size	Rate	Mode	Freq	Service
OK	0	1	DAB audio	UEP 3	0 CU	70 CU	96 kbit/s	dual channel	48 kHz	Bayern 1
OK	0	2	DAB audio	UEP 3	70 CU	96 CU	128 kbit/s	stereo	48 kHz	Bayern 2
OK	0	3	DAB audio	UEP 3	166 CU	116 CU	160 kbit/s	stereo	48 kHz	Bayern 3
OK	0	4	DAB audio	UEP 3	282 CU	140 CU	192 kbit/s	stereo	48 kHz	Bayern 4
OK	0	5	DAB audio	UEP 3	422 CU	70 CU	96 kbit/s	mono	48 kHz	B5AKTUELL
OK	0	6	DAB audio	UEP 3	492 CU	96 CU	128 kbit/s	stereo	48 kHz	Energ
OK	0	7	DAB audio	UEP 3	588 CU	58 CU	80 kbit/s	mono	48 kHz	DeutschlandRadio
OK	0	8	DAB+ audio	EEP 3-A	646 CU	48 CU	64 kbit/s	stereo+SBR+PS	24 kHz	Antenne Bayern

DABSTOR-E Software provides Control and Monitoring via LAN Interface

Specifications may be subject to change without notice.



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