



MAGIC TH2 POTS

Digital POTS double hybrid



General

MAGIC TH2 POTS has two POTS line interfaces and can therefore be used as digital POTS double hybrid. The two available Audio inputs and outputs can be configured as analogue or as digital Audio interfaces. The system can be controlled and configured via the front keypad and the graphical display as well as via an optional Windows PC Software. Alternatively, GPIO contacts can also be used for system operation. Furthermore, two POTS telephones can be connected to the system which can be used for dialling and PRETALK.

Digital Signal Processing

A digital Echo Canceller, an Automatic Gain Control (AGC) as well as an Expander are available separately for each channel.

Analogue and digital Audio Interfaces

MAGIC TH2 POTS incorporates two analogue and two digital (AES3) Audio interfaces on the rear side of the unit. The digital AES3 interface is physically one interface and has separate sample rate converters for the input and the output. The analogue input level and the analogue output level can be configured by software. On the rear side, there are also two phone interfaces to connect two POTS telephones for PRETALK or dialling.

System Operation

The complete system can be configured via the front keypad and the graphical display with a resolution of 160 x 32 pixels. The menus are based on a mobile phone user interface. Also, the GPIO interface with four configurable TTL inputs/outputs as well as two relays can be used for operation. The system incorporates a telephone book which allows simple dialling.

Blacklist

If required, certain callers can be put on a Blacklist. They are blocked until they are removed from the list. If the telephone number of the blocked caller is transmitted, he is automatically rejected by the system and only hears the busy tone.

Software Options

• PC Operation

The system operation can also be done via an optional Windows PC software. The graphical user interface displays the status of the callers and optimises the control of the system.



• DTMF Tone Generation & Analysis

With this software option DTMF tones can be transmitted as well as analysed. The DTMF analysis is particularly suitable for e.g., game shows. The DTMF tones are displayed for both caller lines and the DTMF tone of the first caller to send the correct answer by DTMF is marked in green. To use this option, the PC Operation software is required.

• Remote Reporting

With the Remote Reporting functionality, an authorised employee of the broadcasting studio can dial into the MAGIC TH2 POTS with his mobile phone. The caller is not switched from the HOLD status to the ON AIR status before the entry of a PIN Code. As confirmation, the caller hears a sound so that he knows when he can start his live reporting. If a wrong PIN Code is entered, the connection is released immediately. The Remote Reporting functionality is included in the fee-based DTMF Tone Generation & Analysis software option.

• Conference Mode

In the conference Mode, both caller signals are digitally mixed in the system and provided as common Audio signal.



Hardware Options

- **MAGIC TH2 POTS Dual 19" Mounting Kit**

With the MAGIC TH2 POTS Dual 19" Mounting Kit two MAGIC TH2 POTS systems can be installed side by side in a 19" rack. 19" mounting brackets for a single system are already included in delivery.

- **MAGIC TH2 POTS Keypad**

The MAGIC TH2 POTS Keypad allows complete operation of the system without a PC. The Keypad supports both caller lines. Calling numbers can be entered and the Quick Dial numbers as well as the telephone book of the system are also available.



Technical Data

Line Interfaces:	Analogue POTS (2 channels)
Coding algorithm:	G.711 (3.1-kHz)
Bandwidth:	300-Hz...3400-Hz
Audio input:	2 x Analogue XLR (sym.) Dual digital input (1 x AES3) with Sample rate Converter, Sync output with word clock
Audio output:	2 x Analogue XLR (sym.) Dual digital output (1 x AES3) with Sample Rate Converter, Sync input with word clock
Further Audio Interfaces:	no
Telephone Interface:	yes, 2 x analogue (POTS)
Line Echo Canceller:	yes, for each channel
AGC:	yes, for each channel
Expander:	yes, for each channel
Recorded HOLD Signal:	16 seconds storage of an individual HOLD Signal
Control Interface:	RS232
Dialling by:	Front Keypad/Display PC Analogue Telephone External Keypad/Display
TTL Interface (GPIO):	yes, TTL (4 x In/Outputs), programmable
Relays:	2 x floating contacts, programmable
Digital Mixing:	no
Dimensions:	1/2 x 19", 1 U
Approvals:	CE, UL, FCC

Ordering information:

MAGIC TH2 POTS	800501
MAGIC TH2 POTS Hybrid Keypad	800500
MAGIC TH2 POTS Dual 19" Mounting Kit	800502
POTS Telephone	490101
MAGIC TH2 POTS PC Software	430250
DTMF Tone Generation & Analysis	430200
Conference Mode	430275

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