

# MAGIC TH<sub>ip</sub>*Pro*

**ISDN, POTS & VoIP Telephone Hybrid**

Hardware Manual



Preliminary



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**I N T R O D U C T I O N**

MAGIC THipPro is available in three basic versions (POTS, ISDN or VoIP). In the POTS version, maximum eight caller lines can be provided. In the ISDN and VoIP version systems for eight and for sixteen lines are available.

Via the two LAN interfaces on the rear side of the unit, system control and VoIP connections are realised. Independent from the type of the line interfaces MAGIC THipPro provides eight digital Audio lines (four AES/EBU interfaces) as well as two analogue Audio inputs and outputs. Additionally, two handset/headset interfaces can be used for Pretalk.

MAGIC THipPro has an integrated wide area power supply, a keypad with display and LEDs on the front side.



## S A F E T Y

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### Introduction

The unit described is designed to the latest technical parameters and complies with all national and international safety requirements. It operates with a high level of operational safety resulting from long development experience and stringent quality control in our company.

#### **In normal operation this equipment is safe.**

There are, however, some potential sources of danger that cannot be completely eliminated.

This Operator Manual therefore contains basic safety instructions that must be observed during system configuration and operation. The Operator Manual must be read before the system is used and the current version of the document must always be kept close to the equipment.

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### General safety requirements

In order to keep the technically unavoidable residual risk to a minimum it is imperative to observe the following rules:

- Transport, storage and operation of the unit/system must be under the permissible conditions only.
- Installation, configuration and disassembly must be carried out only by trained personnel and with reference to the respective documentation.
- The system must be operated by knowledgeable and authorised users only.
- The system/unit must not be operated unless it is in good working order.
- Any conversions or alterations to the system or parts of the system (including the software) must be carried out by qualified personnel from the manufacturer or by expert personnel authorised by our company.  
All alterations carried out by other persons lead to a complete exemption from liability.
- The removal or disabling of safety measures, the correction of faults and errors, and the maintenance of equipment must be carried out by specially qualified personnel only.
- Non-system software is used at one's own risk. The use/installation of non-system software can adversely affect the normal functioning of the system.
- Only use tested and virus-free data carriers.

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**Conventions**

In this manual, the following conventions are used as text markers:

**Emphasis:** Product names or important terms

**LCD TEXT:** Labelling on the front display of the system

**PC Text:** Labelling in the PC software

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**TIP**

The symbol **TIP** labels information which facilitates the operation of the system in its daily use.

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**NOTE**

The symbol **NOTE** labels general notes to observe.

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**ATTENTION**

The symbol **ATTENTION** labels very important advice that is absolutely to observe. In case of non-observance disfunctions and even system errors are possible.

---

## 1 C O N S T R U C T I O N

**MAGIC THipPro** contains a mainboard with an additional connector, a display, a keypad and five LEDs. For the ISDN and POTS version two modules with the POTS or the ISDN components can be put on the mainboard.

The functions of the **MAGIC THipPro** are implemented in a 19" unit with 1U and the dimensions of 434 mm x 44,5 mm x 252 mm. **MAGIC THipPro** can be used as a table-top device or it can be mounted in 19" racks. There are some ventilation holes for a good ventilation.

FIG. 1

FRONT VIEW: MAGIC THIPPRO



FIG. 2

REAR VIEW: MAGIC THIPPRO EQUIPPED WITH ONE MODULE





## 2 SYSTEM DESCRIPTION

### 2.1

#### Functionality

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**MAGIC THipPro** is available in three basic versions (POTS, ISDN or VoIP). In the POTS version, maximum eight caller lines can be provided. In the ISDN and VoIP version, systems for eight lines as well as for sixteen lines are available.

Via the two LAN interfaces on the rear side of the unit system control and VoIP connections are realised. Independent from the type of the line interfaces **MAGIC THipPro** provides eight digital Audio lines (four AES/EBU interfaces) as well as two analogue Audio inputs and outputs. Additionally, two handset/headset interfaces can be used for Pretalk.

The Hold signal can be an external, an internal (recorded or imported as file) signal or the On Air signal. Up to four different internal Hold signals can be defined.

**MAGIC THipPro** has an illuminated graphical display with a resolution of 160 x 32 pixels and a front keypad, which can be used for basic settings and status indications.

With the Telephone Hybrid up to 16 callers can be switched ON AIR or in PRETALK simultaneously. Additionally, there are two configurable call forwarding functions.

To optimize the Audio quality a digital Echo Canceller, an Automatic Gain Control (AGC) and an Expander for noise suppression are available for each caller line.

**S y s t e m   D e s c r i p t i o n**

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3.1**Mounting**

With its dimensions (W × H × D) of 434 mm × 44,5 mm (1 U) × 252 mm the **MAGIC THipPro** system can be either used as desktop device or mounted in a 19 inch rack. Corresponding 19" mounting brackets are included in delivery.

When mounting the unit please keep in mind that the bending radius of the cables is always greater than the minimum allowed value.

When the **MAGIC THipPro** Telephone Hybrid is installed, please make sure that there is sufficient air ventilation: It is recommended to keep a spacing of ca. 3 cm from the openings. In general, the ambient temperature of the system should be within the range of +5°C and +45°C. These limits are especially to observe if the system is inserted in a rack. The systems works without ventilation.

**TIP**


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The system temperature can be indicated on the display.

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During operation air humidity must range between 5% and 85%.

**ATTENTION**

**Incorrect ambient temperature and humidity can cause functional deficiencies.**

Operation outside the threshold values indicated above leads to a loss of warranty claim.

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3.2**Connection to the mains voltage**

The system can be operated with mains voltage in the range from 90 V to 253 V via the internal power supply and the mains type appliance cable. The line frequency can vary from 45 Hz to 65 Hz. The maximum power consumption is 15W. The rack must be earthed according to the EMC regulations. The earthing can be carried out via the earthing screw on the back side of the unit.

The unit has a circuit closer. After plugging in the mains type appliance cable and pressing the circuit closer, the system boots within a few seconds.

---

3.3**Earthing of the system**

For EMC reasons an earthing via the earthing screw of the system must be car-

ried out in either case.

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**ATTENTION Earthing**

A lacking earthing can cause functional deficiencies within the unit.

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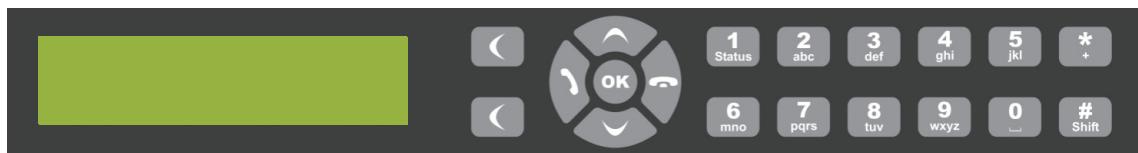
**3.4****Operating elements on the front side**

The system has an illuminated graphical display with a resolution of 160 x 32 Pixels and 21 operating buttons.

On the right next to the display there are two softkeys whose current functions are indicated on the display. In the middle there are two buttons for navigation (selection upwards/downwards) and the **OK** button. The numerical pad supports in addition to the numericals **0...9** also the '\*' and '#' button. For entering text the numerical pad can also be used as a normal keypad.

---

**FIG. 3 OPERATING ELEMENTS ON THE FRONT SIDE**

**3.5****Alarm indication LEDs**

The **MAGIC THipPro** has five LEDs for status indication.

- (1) **POWER** green  
Lights up when system is ready for operation.
- (2) **SYNC** green  
Lights up if at least one telephone connection is established.
- (3) **ALARM** red  
Lights up if a fault has occurred in the unit. The Windows PC software provides more detailed information about the error.
- (4) **INFO 1** orange
- (5) **INFO 2** orange

## 3.6

## Operating modes of the system

The following figures show the system in the different operating modes and their respective cablings.

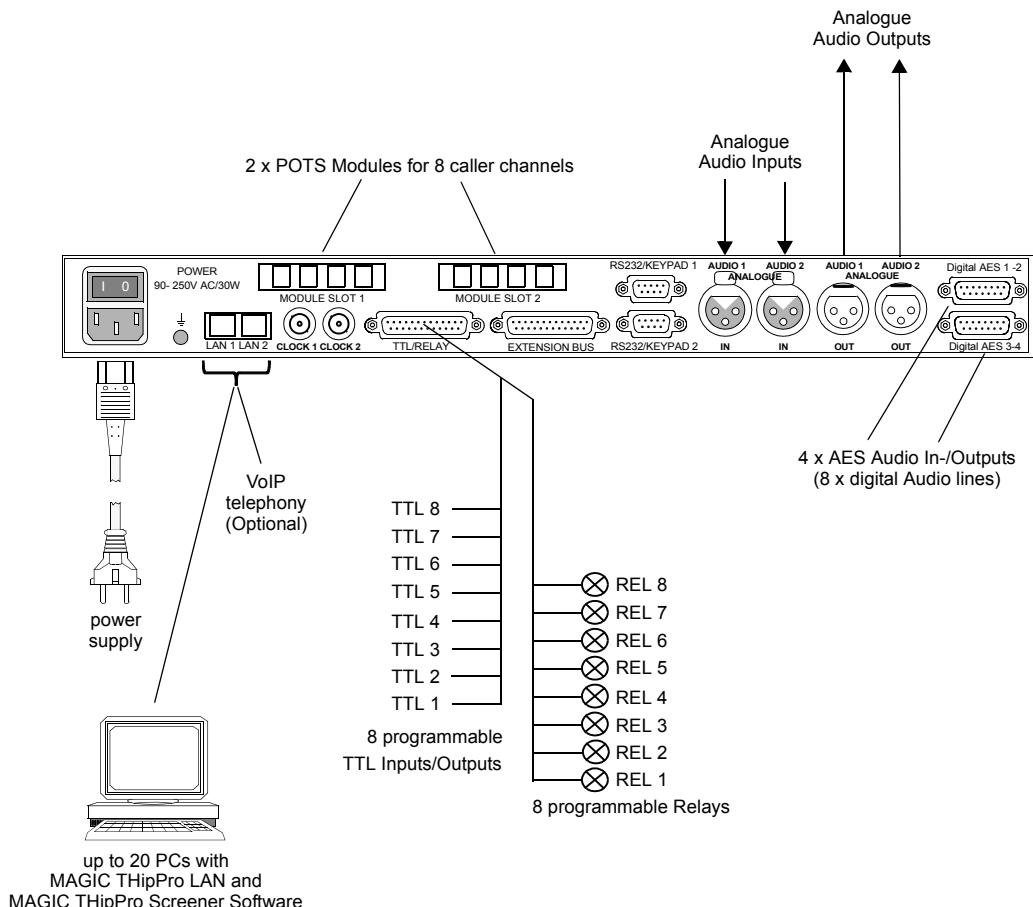
## 3.6.1 POTS operating mode

**ATTENTION Earthing**

If the POTS interfaces are in operation, the system must be earthed via earthing screw for EMC reasons. If the earthing is not carried out, the Audio signal can be faulty on the caller's side (humming).

The wiring for the operation is pictured in Fig. 4. **MAGIC THipPro POTS** can be equipped with two fourfold POTS modules and can be used as a eight line POTS Hybrid.

FIG. 4 WIRING OF THE MAGIC THIPPRO POTS



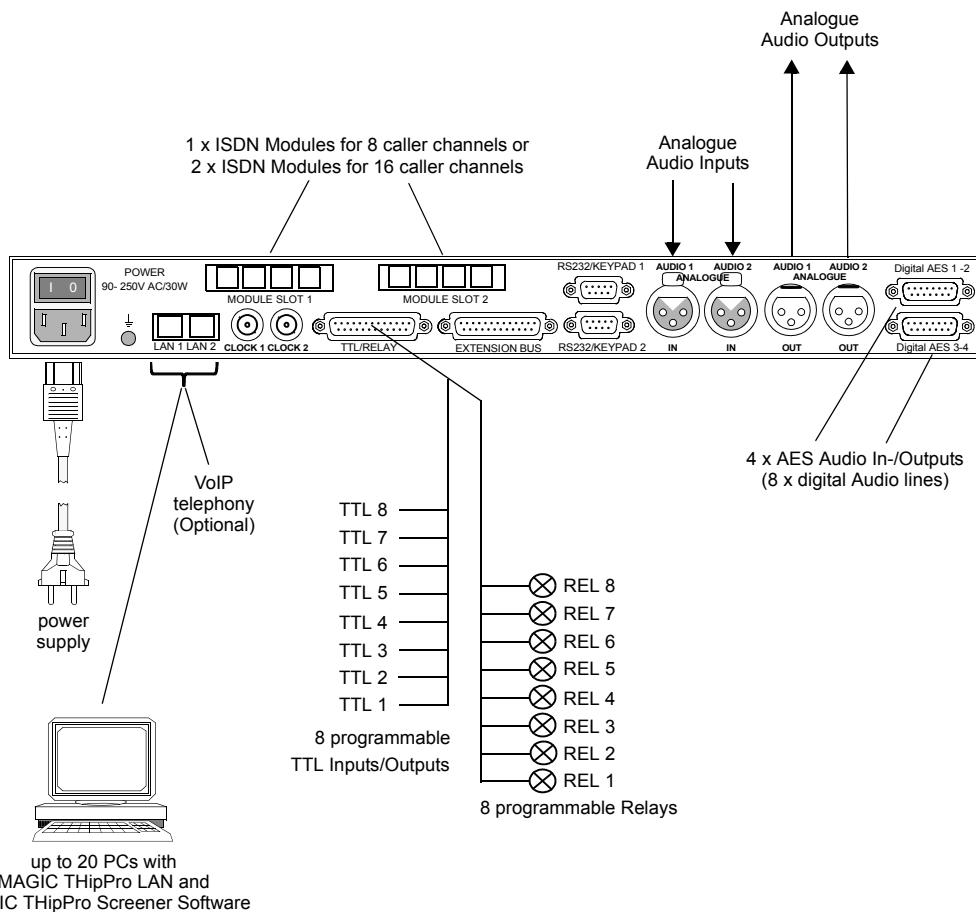
## 3.6.2

## ISDN operating mode

*MAGIC THipPro* can be equipped with two fourfold ISDN BRI modules and can be used as a eight or a 16 line ISDN Hybrid.

FIG. 5

WIRING IN OF THE MAGIC THIPPRO ISDN

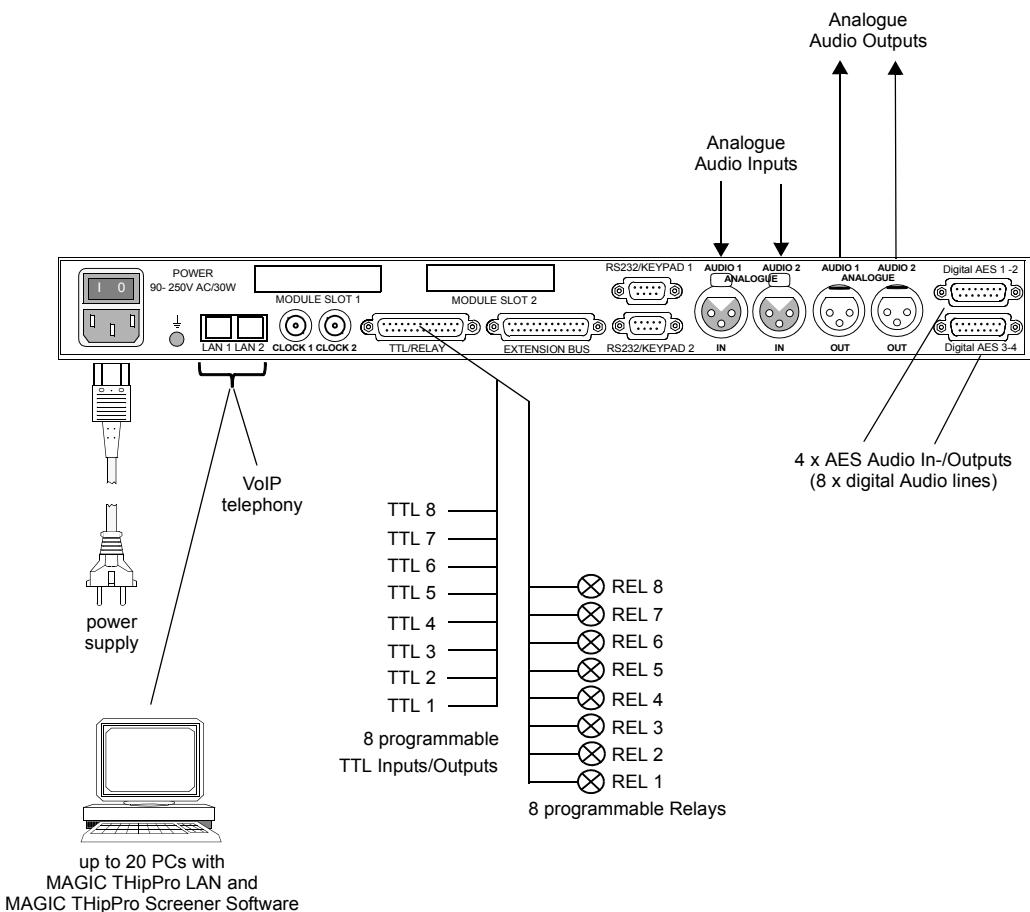


## 3.6.3

## VoIP operating mode

MAGIC THipPro can act as a eight or 16 line Hybrid. One of the LAN interfaces can be used.

FIG. 6 WIRING OF THE MAGIC THIPPRO VOIP



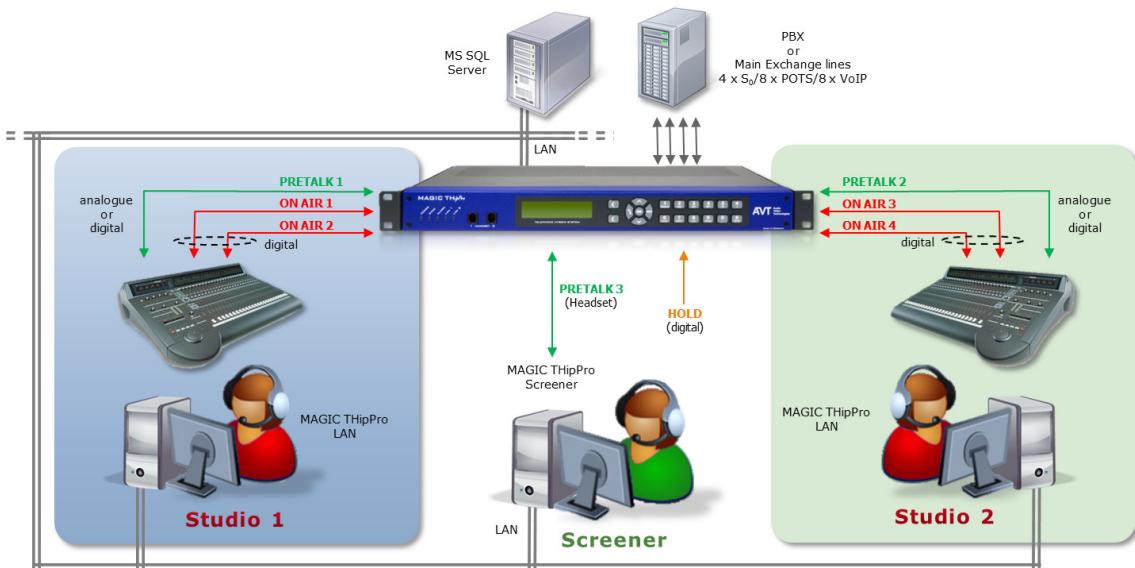
Below you will find some example applications with *MAGIC THipPro*.

## 3.7.1

## Two studios with presenter and one screener location

If MAGIC THipPro 8 is used, eight common caller lines are available for both studios. In each studio all eight lines are displayed. The MAGIC THipPro LAN Software is installed for the workplaces in the studios. The Screener works with the MAGIC THipPro Screener Software. Each Presenter has his own Pretalk line and two On Air lines to realize a Two Faders operation. The Screener uses a headset for Pretalk which is directly connected to the telephone hybrid. Additionally, an external signal can be fed in as Hold signal. Alternatively, the On Air or a recorded signal can be used for Hold.

FIG. 7 APPLICATION WITH TWO STUDIOS



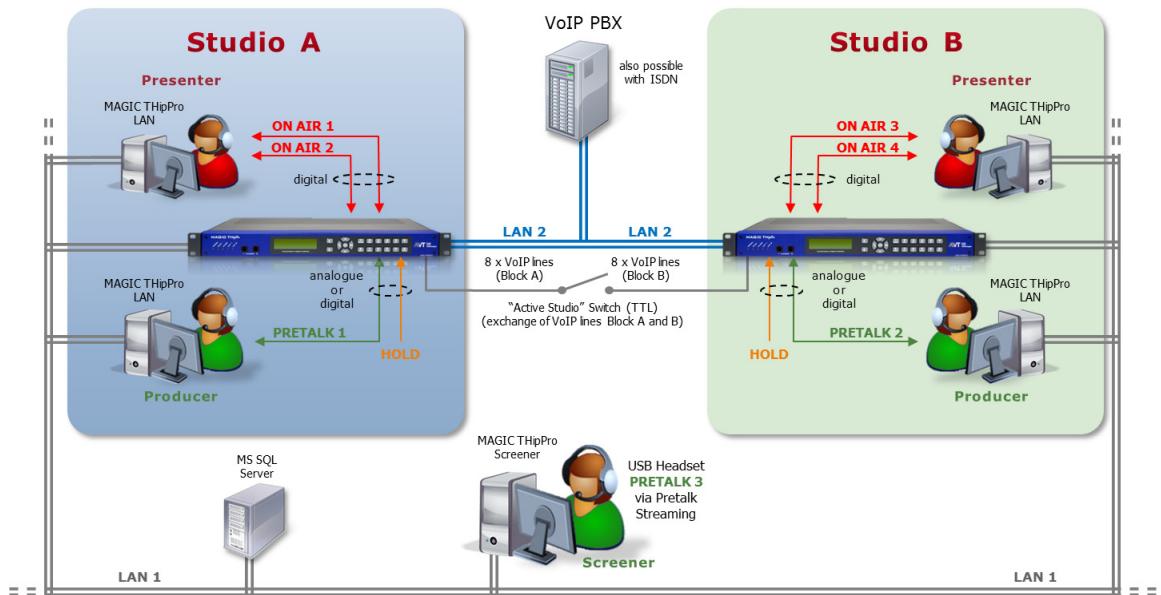
## 3.7.2

## Two studios in redundancy operation

Two identical studios are equipped with two MAGIC THipPro ISDN or VoIP systems. Studio A is used as active studio whereas Studio B is used as backup. To each studio a block of eight caller lines is allocated. The Presenter and the Producer use the MAGIC THipPro LAN Software in the studios. The Screener workplace is connected via Pretalk Streaming and works with a USB Headset that is directly connected to the Screener PC. In this way, in case of a backup the Screener has access to Studio B just by activating a preset. The caller lines can be switched via a TTL contact (switch "Active Studio").

FIG. 8

APPLICATION WITH REDUNDANCY



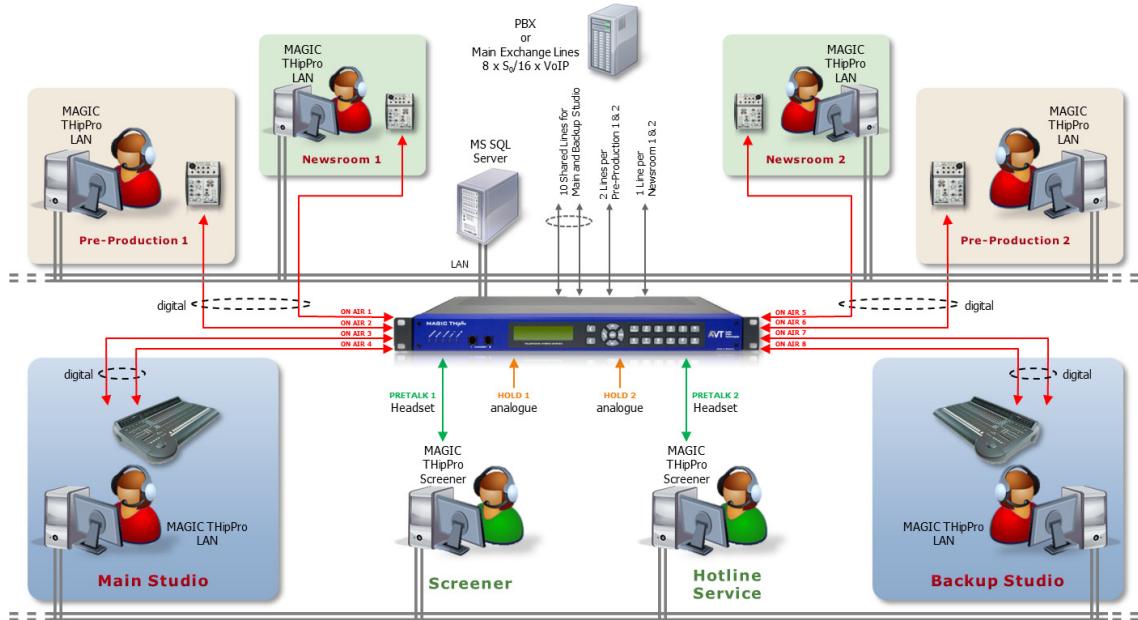
## 3.7.3

## MAGIC THipPro with MAGIC Admin Upgrade

With the optional MAGIC THipPro Admin Upgrade, the MAGIC THipPro Telephone Hybrid can be used for up to six studios. The caller lines can be assigned to the individual studios or they can be used by several studios together. In each studio only the allocated caller lines are displayed. In our example a main studio and a backup studio are established. Both can access the shared ten caller lines and every studio has two On Air lines for a Two Faders mode. If the main studio fails, the backup studio can go immediately On Air. The Screener talks to the callers in Pretalk via a headset using the MAGIC THipPro Screener Software for control. Furthermore, a workplace where caller data is collected/updated is installed (Hotline Service) where also a headset and the MAGIC THipPro Screener Software are in use. Besides the main and the backup studio, there are two Pre-Productions and two News Studios. Each of the four studios works with its own ON AIR line and uses the MAGIC THipPro LAN Software.

Due to the MAGIC THipPro Admin Upgrade two different Hold signals, which can be allocated to the individual studios, are possible. Alternatively, the On Air signal or a recorded Hold signal can be used.

FIG. 9 APPLICATION WITH ADMIN UPGRADE



## A1.1

**MAGIC THipPro**

On the front side of the unit 5 LEDs for status indication and 2 Handset/Headset interfaces for PRETALK are available.

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FIG. 10 FRONT VIEW OF MAGIC THIPPRO



The connectors for the interfaces are at the rear side of the unit.

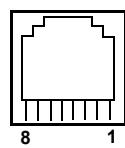
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FIG. 11 REAR VIEW OF MAGIC THIPPRO 8 ISDN



**A1.2****Control and data interfaces****A1.2.1****LAN 1 and LAN 2 interfaces**

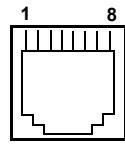
The LAN 1 and LAN 2 interfaces can be used as control interfaces. One of the two interfaces can also be used as VoIP interface. For the LAN interfaces RJ 45 sockets are used. The pin assignment of the socket is shown in TAB. 1.

**TAB. 1 PIN ASSIGNMENT: LAN INTERFACES****Socket: Western (8 pin) RJ45**

Pin	Signal	Electrical characteristics
1	TX+	Data out +
2	TX-	Data out -
3	RX+	Data in +
4	not used	
5	not used	
6	RX-	Data in -
7	not used	
8	not used	

**A1.2.2****ISDN Line Interfaces**

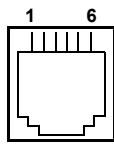
*MAGIC THipPro* can be equipped with in maximum 2 pieces of 4 x ISDN BRI modules. The ISDN BRI interfaces are available on RJ 45 sockets. The pin assignment is shown in TAB. 2.

**TAB. 2 PIN ASSIGNMENT: BRI ISDN INTERFACES****Socket: Western (8 pin) RJ45**

Pin	Signal	Electrical characteristics
1	not used	Recommendation: I.430
2	not used	Data rate: B channel: 2 x 64 kbit/s D channel: 16 kbit/s
3	TX +	Data out +
4	RX +	Data in +
5	RX -	Data in -
6	TX -	Data out -
7	not used	
8	not used	

**A1.2.3****POTS Line Interfaces**

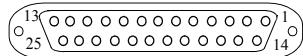
*MAGIC THipPro* can be equipped with 2 pieces of 4 x POTS modules and therefore provides 8 x POTS interfaces. The POTS interfaces are available on RJ 11 sockets. The pin assignment is shown in TAB. 3.

**TAB. 3 PIN ASSIGNMENT: POTS LINE INTERFACES****Socket: Western (6 pin) RJ11**

Pin	Signal	Electrical characteristics
1	not used	Typical characteristics:
2	not used	Bandwidth: 300 - 3.3 kHz Signal to noise ratio: 45 dB
3	TEL LINE +	Average level: -9 dBm (275 mV)
4	TEL LINE -	Impedance: 600 ohms DC voltage: 48 V ( $\pm 6$ V typ) DC current: 20-26 mA (typ)
5	not used	Ringing voltage 90 Vrms
6	not used	Ringing frequency: 20 Hz (2 sec on, 4 sec off)

**A1.2.4****TTL/RELAY interface**

The TTL/Relay interface is realised as a 25-pin socket. It provides 8 TTL inputs or outputs and 8 Relay contacts. The pin assignment of the socket is shown in TAB. 4.

**TAB. 4 PIN ASSIGNMENT: TTL/RELAY INTERFACE****Socket: SUB-D 25 pin**

Pin	Signal	Direction	Electrical characteristics
1	TTL 1	input/output	<b>TTL interface:</b>
2	TTL 2	input/output	Capacity of the TTL outputs: Maximum voltage: 3.3V
3	TTL 3	input/output	Maximum current: 10mA
4	TTL 4	input/output	<b>Relay interface:</b>
5	TTL 5	input/output	Capacity of the relays: Maximum voltage: 48V
6	TTL 6	input/output	Maximum current: 200mA
7	TTL 7	input/output	
8	TTL 8	input/output	
9	RELAY 4 (B)	output, NO	
10	RELAY 5 (B)	output, NO	
11	RELAY 6 (B)	output, NO	
12	RELAY 7 (B)	output, NO	
13	RELAY 8 (B)	output, NO	
14	RELAY 1 (A)	output, NO	
15	RELAY 1 (B)	output, NO	
16	GND		
17	RELAY 2 (A)	output, NO	
18	RELAY 2 (B)	output, NO	
19	RELAY 3 (A)	output, NO	
20	RELAY 3 (B)	output, NO	
21	RELAY 4 (A)	output, NO	
22	RELAY 5 (A)	output, NO	
23	RELAY 6 (A)	output, NO	
24	RELAY 7 (A)	output, NO	
25	RELAY 8 (A)	output, NO	

NO = Normally Open

**A1.2.5****RS232/Keypad Interfaces**

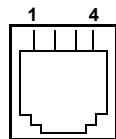
Not in use.

**A1.2.6****Extension Bus**

Not in use.

**A1.3****Audio interfaces****A1.3.1****Handset/Headset Interfaces**

Two Handset/Headset interfaces are available at the front side of the *MAGIC THipPro*. The pin assignments of the RJ10 connectors are shown in TAB. 5.

**TAB. 5** HANDESET INTERFACE

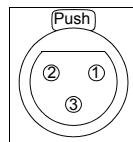
Socket: Western (4 pin) RJ10

Pin	Signal	Electrical characteristics
1	HANDSET IN a/+5V phantom power	Microphone: Impedance: ~ 2 kOhm Sensitivity: ~ -60 dB @ 1-kHz
2	HANDSET OUT b (GND)	
3	HANDSET OUT a	Telephone receiver: Impedance: ~150 Ohm Sensitivity: ~ 97dB @ 1-kHz
4	HANDSET IN b	

**A1.3.2****Analogue Audio interfaces**

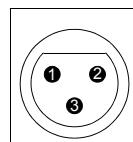
*MAGIC THipPro* provides two analogue Audio (Audio 1, Audio 2) inputs and outputs.

For the inputs XRL sockets and for the outputs XLR plugs are available. The pin assignments of the sockets and connectors are shown in TAB. 6 and TAB. 7.

**TAB. 6** ANALOGUE AUDIO INPUT

Socket: 3 pin XLR

Pin	Signal	Description
1	GND	Ground
2	A	+
3	B	-

**TAB. 7** ANALOGUE AUDIO OUTPUT

Connector: 3 pin XLR

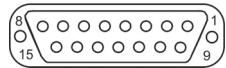
Pin	Signal	Descriptions
1	GND	Ground
2	A	+
3	B	-

**A1.3.3****Digital AES/EBU Audio Interfaces**

*MAGIC THipPro* provides eight digital Audio inputs and outputs available on four physical AES/EBU interfaces.

Two 15-pin Sub-D sockets provide the digital AES/EBU interfaces. The BNC socket CLOCK 1 can be used to insert an external AES/EBU clock or to receive an AES/EBU clock . The CLOCK 2 interface is not in use.

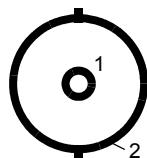
As an option adapter cables with XLR connectors can be provided. The pin assignment of the 15-pin Sub-D sockets are shown in TAB. 8. The pin assignment of the BNC socket is described in TAB. 9.



**TAB. 8** DIGITAL AUDIO INTERFACES AES/EBU 1-2 AND AES/EBU 3-4

**Socket: SUB-D 15 pin**

Pin	Signal	Description
1	AES 1 IN +	
2	AES 1 IN -	
3	AES 2 IN +	
4	AES 2 IN -	
5	AES 1 OUT +	
6	AES 1 OUT -	
7	AES 2 OUT +	
8	AES 2 OUT -	
9	GND	
10 ... 15	GND	



**TAB. 9** WORD CLOCK, BNC SOCKET "CLOCK 1"

Pin	Signal	Electrical characteristics	
1	CLOCK IN/OUT	Amplitude:	0,5 to 1,9 Vop
2	GND	Impedance:	75 Ohm unsym.

**CODING ALGORITHMS**

- G.711 3,1-kHz (Telephone algorithm)
- G.722 (with HD Voice Upgrade in VoIP mode)

**LINE INTERFACES:**

- ISDN 8/16 version
  - 4/8 x S<sub>0</sub>
  - 2 x LAN
- POTS version
  - 8 x POTS
  - 2 x LAN
- VoIP 8/16 version
  - 2 x LAN

**PRETALK INTERFACES**

- Handset/Headset interface
  - 2 x HANDSET/HEADSET

**CONTROL INTERFACES**

- 2 x LAN
- TTL/RELAY
  - 8 x Relay
  - 8 x TTL Input/Output

**AUDIO INTERFACES**

Analogue Audio 1/2:

- Electronically balanced input XLR female
- Electronically balanced input XLR male

- Impedance                      Input:               $> 25 \text{ k}\Omega$   
                                        Output:              $< 50 \Omega$
  - Frequency response            50 Hz ... 3400 Hz
- Digital Audio AES/EBU:
- Format                         IEC-958              AES/EBU Professional
  - Electronically balanced input                              15-pin SUB-D female
  - Electronically balanced output                              15-pin SUB-D female
  - Impedance                       Input:               $110 \Omega$   
                                        Output:              $110 \Omega$
  - Separate Sample Rate Converter for Inputs

Handset/Headset:

- Electronically balanced input                              RJ10 socket
- Electronically balanced output                              RJ10 socket

**SIGNAL PROCESSING**

- AGC per channel, configurable
- Level adjustment control during connection: -16 dB ... +16 dB
- Echo Canceller per channel
- Expander per channel, configurable

**DISPLAY**

- graphical resolution 160 x 32 Pixel
- illuminated (can be switched off)

**DIMENSIONS**

**H x W x D**

- 44,5 x 434 x 252 mm

**WEIGHT**

- ca. 3,7 kg

## ADDITIONAL INFORMATION

### EMC

- EN 55103

### Electric safety

- EN 60950

### Temperature Range

- +5 °C to 45 °C

### Relative humidity

- 5% is 85%

**A3.1****Order numbers**

MAGIC THipPro 8 VoIP	802050
MAGIC THipPro 8 POTS	802051
MAGIC THipPro 8 ISDN	802052
MAGIC THipPro 16 VoIP	802053
MAGIC THipPro 16 ISDN	802055

**Accessories**

MAGIC THipPro Telephone Handset with Handset Rest	490180
MAGIC THipPro Telephone Headset Mono Aural	490181
MAGIC THipPro Telephone Headset Bin Aural	490182
MAGIC THipPro Volume Adapter	490178

**Cables**

AES/EBU/CLK Adapter Cable	490183
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**Software Options**

MAGIC THipPro LAN Software licence	430401
MAGIC THipPro Screener Software licence	430402
MAGIC THipPro Admin Upgrade	430404
MAGIC THipPro DTMF Tone Analyzer Upgrade	430405
Pretalk Streaming Upgrade	430464

**System Upgrades**

MAGIC THipPro 8 ISDN/POTS -> 8 VoIP channels Upgrade	802057
MAGIC THipPro 16 ISDN/POTS -> 16 VoIP channels Upgrade	802058

MAGIC THipPro 8 ISDN -> 16 ISDN channels Upgrade	802059
MAGIC THipPro 8 VoIP -> 16 VoIP channels Upgrade	802060
MAGIC THipPro 8 ISDN/POTS -> 16VoIP channels Upgrade	802061

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**A3.2**

**Scope of delivery**

- MAGIC THipPro Telephone Hybrid
- CD Windows PC Software
- External Power Supply Adapter
  - Input: 100 - 240V/24W, 50 - 60 Hz
  - Output: 12V
- Self adhesive feet
- 19'' Mounting brackets
- Manual

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**A3.3**

**Declaration of conformity**

The declaration of conformity you will find at the end of this manual.

**A4.1****Software Updates**

On our homepage you can download software updates for free. Go to

<http://www.avt-nbg.de>

and select **Download - Software**.

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**A4.2****Support**

You can contact our Support Hotline during the normal office hours between 09.00h - 17.00h (GMT+1) under the following telephone number:

**+49 911 5271 160**

or via E-Mail under

**support@avt-nbg.de**

To deal with your problem efficiently please note the factory number of the unit as well as the software version that you use.

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**A4.3****Repairs**

If, contrary to expectations, your unit is defective please fill in the attached status report and send the unit to the following address:

**AVT Audio Video Technologies GmbH**  
**- Repairs -**  
**Nordostpark 12**  
**D-90411 Nuernberg**  
**Germany**



# CE-Konformität

## DECLARATION OF CONFORMITY

**Name des Anbieters:** AVT Audio Video Technologies GmbH  
Supplier's name:

**Anschrift des Anbieters:** Nordostpark 12  
Supplier's address D-90411 Nürnberg

**erklärt, daß das Produkt**  
declares, that the product

<b>Produktname(n):</b> Product name(s):	MAGIC THipPro 8 VoIP Telephone Hybrid	802050
	MAGIC THipPro 8 POTS Telephone Hybrid	802051
	MAGIC THipPro 8 ISDN Telephone Hybrid	802052
	MAGIC THipPro 16 VoIP Telephone Hybrid	802053
	MAGIC THipPro 16 ISDN Telephone Hybrid	802055

**mit den Vorschriften folgender Europäischer Richtlinien übereinstimmt:**  
conforms to the standards of the following European directives:

**Nummer/Text:** EN 60950 A4 Gerätesicherheit  
Number/title:

**Die Übereinstimmung wird nachgewiesen durch vollständige Einhaltung folgender Normen:**  
The conformity is evidenced by strictly meeting the following standards:

**Harmonisierte Normen:** EN 55022, EN 55024,  
Harmonized Standards: EN 300386,  
FCC Part 15 B

**Ort, Datum:** Nürnberg, 20.02.2013  
Place, date:

**Name(n):** Wilfried Hecht  
Name:

**Rechtsverbindliche Unterschrift(en):**  
Legally binding signatures:



**Telefon:** +49 911 5271-0  
Phone:

**Diese Erklärung beinhaltet keine Zusicherung von Eigenschaften.**  
This declaration includes no warranty of properties.

**Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.**  
The safety instructions specified in the product documentation delivered must be observed.

