

Digital Signage

DiSign System 7.0

Digital Signage

Extension and distribution of audio and/or video signals





Leading the Way in digital KVM

Guntermann & Drunck GmbH has been established in 1985 and is named after its founders. Over 25 years have since past, and we are now a leading manufacturer of digital and analog KVM switching systems.

As an owner-managed company we work with a broad range in both digital and analog KVM closely with the marketplace and make our decisions with and in the interests of our customers. It is our philosophy to meet our customers while making decisions, to accompany them in the process and ensure that they achieve their goals.

We can do this because as a medium sized company we have short communication paths and all core competencies are in house – from development through to production. This way we can even make the impossible possible at times. If it is thanks to the modularity of the products or by implementing a customised solution. We orient ourselves towards the needs of the customer – and not the other way round.

Organisations, service providers and companies of all sizes managing numerous computers, servers and other network devices trust the comprehensive advice and service provided by Guntermann & Drunck GmbH.

Thanks to these different fields of specialisation, the demands placed on the products are many and are manifold. Our products have to provide a long-life service, be secure, uncomplicated, user-friendly, understandable and adaptable.

System

The Digital Signage system DiSign extends and distributes a computer's video and audio signals to multiple remote output devices, which can be placed in a distance of up to 300 m.

DiSign is based on hardware and requires no additional installation. The system works independently from any user software installed on the computer.

The system is modular and consists minimally of three components:

- 1 x computer module CATpro2
- 1 x Distributor DiSign-Splitter
- 1 x Display module DiSign-CON

Alternatively, the computer module can also be connected directly to the display module.



Splitter

The DiSign-Splitter reproduces the signals of a source computer at 8 outputs. Therefore, it is not necessary to place the source computer producing the video and audio signals in the immediate surroundings of the display.



DiSign-Splitter-1AV8

Highlights

Transmission

- video and audio via CAT-x cable (x = 5, 6, 7)

System upgrade

- update wizard upgrades system via service socket

Features

Transmission

- splits the signals of one source to 8 outputs
- connection via CAT-x cable (x = 5, 6, 7)

Device

- available as desktop variant
- requires no software installation

Variants

There are no variants available for this product.

Expansion

There are no expansions available for this product.

Installation

Use CAT-x cables to connect the computer module and the display module to the RJ45 sockets of the DiSign-Splitter.

DiSign-Splitter-1AV8



left: DiSign-Splitter-1AV8 - front view
 right: DiSign-Splitter-1AV8 - rear view

	DiSign-Splitter-1AV8
Interfaces	
to computer module	1 x RJ45 socket
to display modules	8 x RJ45 socket
for update	1 x Mini-USB-B socket
Transmission type to modules	dedicated CAT-x link
Main power supply	
Type	internal power pack
Connection	1 x IEC plug
Voltage	AC100-240V/60-50Hz
	0.2-0.1A
Casing	
Material	anodised aluminium
Desktop (W x D x H)	210 x 44 x 210 mm
Weight	approx. 950 g
Update	
Process	via service port
Connection	Mini-USB-B socket
Operating conditions	
Temperature	+5 to +45 °C
Air humidity	< 80% non-condensing
Conformity	CE, RoHs

Computer module

The CATpro2-Audio computer module is connected to the external interfaces of the source computer. From there, CAT-x cables transmit the signals to the DiSign-Splitter.



CATpro2-Audio

Highlights

Video

- automatic video tuning for each line between computer and display

Operation

- hot pluggable

Features

Signals

- VGA resolutions up to 1920 x 1140 @ 75 Hz
- audio in CD quality

Module

- unique ID (identification ID of the computer module) auto-aligns each line between splitter and user modules
- available in converter design

Variants

There are no variants available for this product.

Expansion

There are no expansions available for this product.

Installation

Connect the cables of the CATpro2-Audio to the computer interfaces for video, USB, and audio.
A CAT-x cable links the DiSign-Splitter to the RJ45 interface of the CATpro2-Audio.

Feel free to download the DiSign systemmanual to find out more details about the start-up.

CATpro2-Audio



CATpro2-Audio

	Computer module
General information	
Signal type/Video	analog video
No. of interfaces to central module	1
Total length incl. cable	0.3 m
Power supply	
Connection	USB
Voltage	+5VDC
Interfaces to computer	
CATpro2-Audio-USB	USB-A, D-Sub HD 15 plug, 3.5 mm jack plug
Interfaces to central module	
	1 x RJ45 socket
Housing	
Material	plastics
Desktop (W x D x H)	65 x 20.7 x 65 mm
Design	converter
Weight	approx. 130 g
Operating conditions	
Temperature	+5 to +45 °C
Air humidity	< 80% non condensing
Conformity	CE, RoHS

Display module

The DiSign-CON display modules transmit AV information from splitter to display. Each module provides ports for connecting 2 displays.

The display modules are available in two variants. The „ld variant“ transmits information over distances up to 300 m, the „sd variant“ up to 50 m.

Highlights

Video

- automatic video tuning for each line between computer and display

Device

- connect 2 displays per device
- hot pluggable

Features

Signals

- VGA resolutions up to 1920 x 1140 @ 75 Hz
- audio in CD quality

Transmission

- variant for transmitting lengths up to 300 m (ld variant)
- variant for transmitting lengths up to 50 m (sd variant)



DiSign-CON-AV2-SD

The lengths apply to the distance between computer module and display.

Device

- external power supply

Variants

- DiSign-CON-AV2-sd for distances up to 50 m
- DiSign-CON-AV2-ld for distances up to 300 m

Expansion

There are no expansions available for this product.

Installation

A CAT-x cable links the DiSign-Splitter to the RJ45 interface of the DiSign-CON.

Connect the displays and speakers to the corresponding interfaces at the DiSign-CON.

DiSign-CON-AV2



left: DiSign-CON-AV2-sd
right: DiSign-CON-AV2-ld

	DiSign-CON-AV2-short distance	DiSign-CON-AV2-long distance
Interfaces		
Video out	2 x D-Sub HD 15 socket	
Audio Line out	2 x 3.5 mm jack socket	
to Splitter	1 x RJ45 socket	
for Update	1 x Mini-USB-B socket	
RS232 connection (in preparation)	2 x RJ11 socket	
Video		
Signal type	VGA	
Resolution (depending on cable)	up to 1920 x 1440 @ 75Hz	
Delay compensation	no	yes
Audio		
Design	internal	
Sampling rate	48 kHz	
Resolution	24 bit stereo	
Bandwidth	22 kHz	
Transmission		
Transmission type	dedicated CAT-x link	
Transmission cable type	CAT-x cable	
Transmission length		
computer module => display module	50 m	300 m
Connection	RJ45 socket	
Assigned connectors at splitter	1	
Power supply		
Type	external power pack	
Connection	Mini-DIN 4 socket	
Voltage	+12VDC/400mA	
Casing		
Material	anodised aluminium	
Desktop (W x D x H)	105 x 26 x 120 mm	105 x 26 x 160 mm
Weight	approx. 250 g	approx. 350 g
Update		
Process	via local service socket	
Connection	Mini-USB-B socket	
Operating conditions		
Temperature	+5 to +45 °C	
Air humidity	< 80% non-condensing	
Conformity	CE, RoHs	

List of Item Numbers

























Item No.	Description	
computer module		
A2320039	CATpro2-Audio-USB	VGA + Audio connection
central module		
A5000004	DiSign-Splitter-1AV8	for 1 computer (module) / 8 display modules
display module		
A5000002	DiSign-Con-AV2-sd	(2 x VGA, Audio) up to 50 meters
A5000003	DiSign-Con-AV2-ld	(2 x VGA, Audio) up to 300 meters

Legend

ABBREVIATIONS

CPU	=	Computer module	M	=	Multimode
PC	=	Computer module	S	=	Singlemode
CON	=	User module	RM	=	For assembly in a 19" rack
REM	=	User module	A	=	Audio
MC2	=	Multichannel 2	AR	=	Audio + RS232
MC3	=	Multichannel 3	R	=	RS232
MC4	=	Multichannel 4	U	=	transparent USB 1.1
			U2	=	transparent USB 2.0
			D	=	Delay

EQUIPMENT FEATURES

	=	keyboard/mouse		=	VT100
	=	dual-link DVI video		=	KVM IP access
	=	single-link DVI video		=	Network connection
	=	single-link DVI + VGA		=	Web interface
	=	VGA video		=	DevCon support
	=	Audio		=	Monitoring
	=	RS232		=	CAT cable
	=	USB 1.1		=	Fiber optics
	=	USB 2.0		=	Single user
	=	Delay		=	Multi user
	=	Screen Freeze		=	Separat local/remote user
	=	Power Switching			
	=	Fire Wire			