



DATA DISPLAY

flatpanel displays and solutions



Multi Screen Displays MediaControlBox

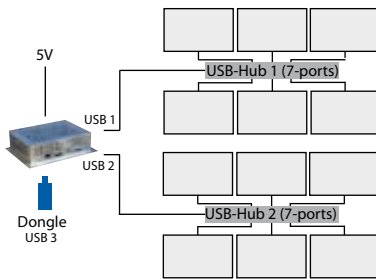
Data Sheet

Features

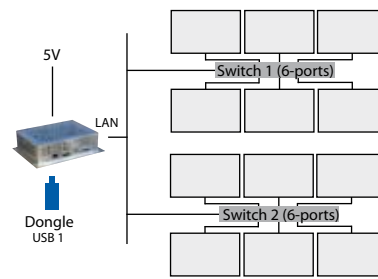
- The MediaControlBox plays slide shows on an arbitrary number of TFT displays.
- TFT displays are connected to the MediaControlBox via USB or/and Ethernet (dependent from the Artista TFT controller).
- Slide shows for the MediaControlBox are created with ArtistaControlCenter (ACC) software.
- The MediaControlBox features the combination of various display sizes and resolutions within one installation.
- Slide shows are transferred to the MediaControlBox via Ethernet or via an ordinary USB flash drive, in which case no Ethernet connection is required.
- After power on, the MediaControlBox starts automatically playing the last uploaded slide show..
- The MediaControlBox does not require regular administration (no Windows operating system, no fans, no hard drives...).



Sample configurations



Configuration with six displays and two USBhubs



Configuration with 12 displays and two switches.

Connectors

USB:	4 x USB 2.0 (1 x Dongle, 3 x USB-hubs. A sequence of hubs is possible).
LAN:	Ethernet 100 MB
Serial:	for service purposes only
PS/2:	for service purposes only
VGA:	for service purposes only

Image storing capacity*

Display resolution	Image size	Storage capacity	
SVGA	800x600	963 kB	778 images
XGA	1024x768	1.577 kB	475 images
SXGA	1280x1024	2.623 kb	285 images
WXGA	1366x768	2.102 kb	356 images

* standard capacity. Higher capacity is available on request.

Minimum display intervalls USB

Display resolution	Bandwidth USB (images/second)	Bandwidth ArtistaUSB (images/second)	
SVGA	800x600	20	20
XGA	1024x768	12	12
SXGA	1280x1024	8	8
WXGA	1366x768	10	10

Minimum display intervalls LAN (Ethernet)

Display resolution	Bandwidth Ethernet* (images/second)	Bandwidth ArtistaNET (images/second)	
SVGA	800x600	12	6
XGA	1024x768	7	3,5
SXGA	1280x1024	5	2,5
WXGA	1366x768	6	3

* Valid for a 100 MB network and exclusive use of the LAN. Sharing the network with other traffic may reduce the indicated bandwidth.

Sample bandwidth calculation for ArtistaUSB and XGA resolution.

With a XGA display resolution, the maximum available bandwidth of the USB bus for transferring images from the MediaControlBox to the displays is 12 images per second. All displays share this bandwidth. Depending from the number of displays, calculate the maximum transfer rates as follows:

- one XGA display: 12 images/second
- four XGA displays: 3 images/second for each display
- six XGA displays: 2 images/second for each display

If one or more displays in a installation show only static images without change, this will increase the available bandwidth for the other displays accordingly, e.g.

- if three displays in an installation of six XGA displays show only static information, the bandwidth of the other three displays will be 4 images/second.

Power supply

Single voltage: 5V. Power consumption: 2,9 A typical. Power lead: Locking connector with 2 meter cable (open end) included in delivery. Red (+), Black (GND).

Sample bandwidth calculation for ArtistaNET and XGA resolution.

With a XGA display resolution, the maximum available bandwidth of the LAN for transferring images from the MediaControlBox to the displays is 7 images per second. All displays share this bandwidth. The capacity of an ArtistaNET controller is 3.5 images/second. Depending from the number of displays, calculate the maximum transfer rates as follows:

- one XGA display: 3.5 images/second
- two XGA displays: 3.5 images/second for each display
- six XGA displays: 1.1 images/second for each display

If one or more displays in a installation show only static images without change, this will increase the available bandwidth for the other displays accordingly, e.g.

- if three displays in an installation of six XGA displays show only static information, the bandwidth of the other three displays will be 2,3 images/second.

Programming slide shows

ArtistaControlCenter software is required to program slide shows for the MCB.





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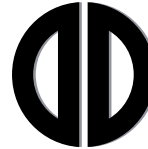


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