

TT-264-S-B

- Converts a single channel Digital Video Input into a real-time H-264 (RTSP) stream over internet.
- Includes a repeater so it can be connected between any DVI graphics output and the monitor.
- Input resolutions up to 1920x1080 with 'Basic HD' Model and up to 2560x1600 with '4MP' Model.
- Streams can be viewed in LAN and bandwidth limited WAN networks.
- H-264 output can be viewed with standard software like VLC, Media Player and Quicktime.
- VLC is the preferred viewer and allows recording (.mp4). The output can be used in iMovie or similar programs to generate movies and burn them to DVD.
- 10/100/1000 Mbit/s BaseT Ethernet Interface.
- Local recording in start/stop mode or continuously up to 10h (resolution dependent).
- Up to two users can view streams in unicast mode.
- Easy to use secure browser interface for:
 - User Management
 - Recording
 - Viewing
 - Preferences
- SD-card stores all variable parameters (< MTTR)
- USB-interface for extensions
- Designed to meet Medical Devices Standards (EN 60 601-1)



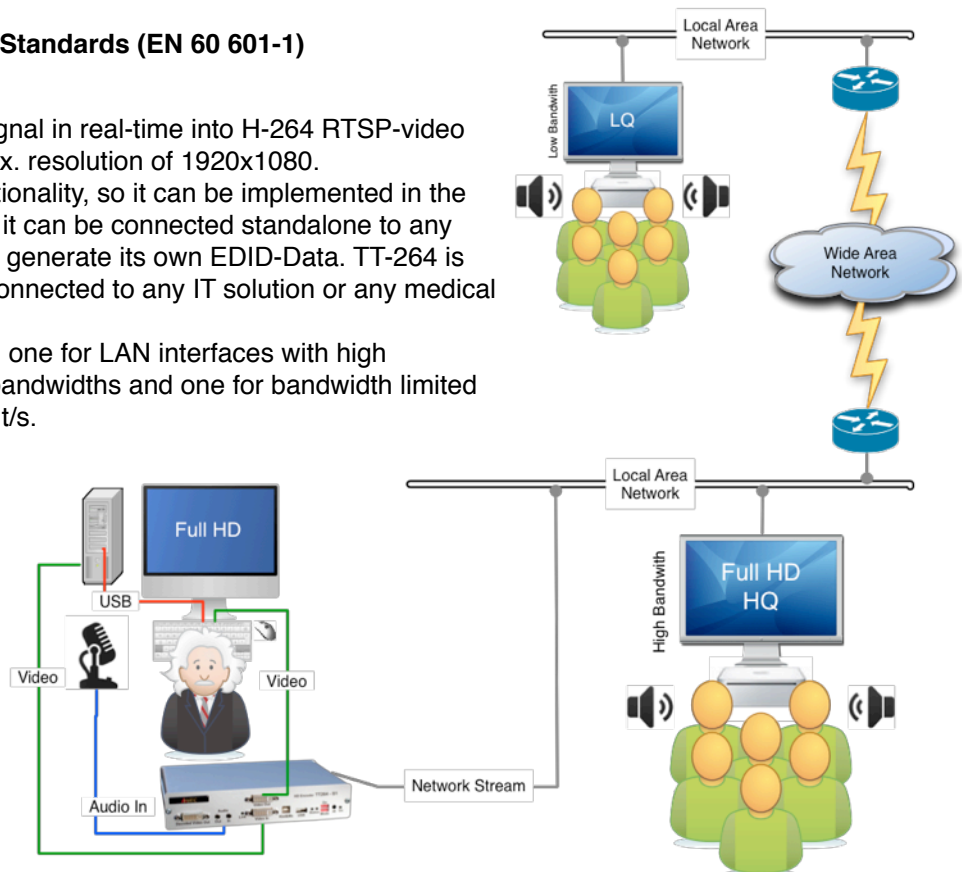
TT-264 can be used to convert a DVI signal in real-time into H-264 RTSP-video stream. The 'Basic HD' model has a max. resolution of 1920x1080. TT-264 has an integrated repeater functionality, so it can be implemented in the graphics board to display connection or it can be connected standalone to any DVI source. In this case the TT-264 can generate its own EDID-Data. TT-264 is designed as medical device, it can be connected to any IT solution or any medical modalities and displays.

Three video streams can be configured, one for LAN interfaces with high bandwidth (50 Mbit/s) one for medium bandwidths and one for bandwidth limited WAN-interfaces with limits at 2, 4, 6 Mbit/s.

Viewing can be done with any H-264 compatible viewer like VLC (preferred), Media-Player and Quicktime.

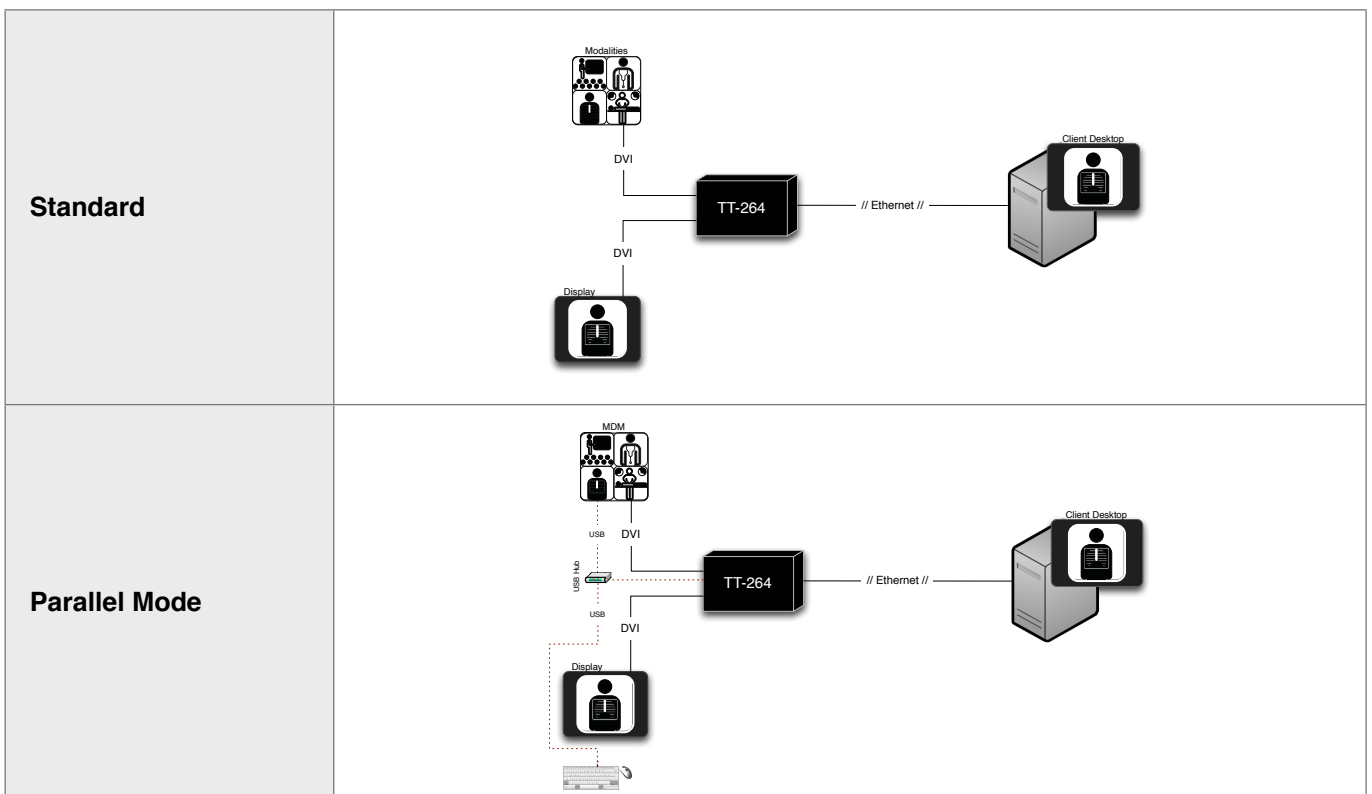
A SD-card holds all configuration parameters, so that a defect TT-264 device can be swapped without the need to set it up again.

The software is based on Linux, so that additional software functionalities can be added easily.



	Basic HD Model	Advanced HD Model	4MP Model
Supported input resolutions	min. 640x480	min. 640x480	min. 640x480
	max. 1920x1080@60Hz	max. 1920x1080@60Hz	max. 2560x1600@60Hz
Video Input	DVI-D Single Link	DVI-D Single Link	DVI-D Dual Link
DVI max. Frequency	165MHz	165MHz	260MHz
EDID	see Note 1	see Note 1	see Note 1
Video Output (repeater)	DVI-D Single Link	DVI-D Single Link	DVI-D Dual Link
DVI max. Frequency	165MHz	165MHz	260MHz
DVI 5VDC	see Note 1	see Note 1	see Note 1
Keyboard & Mouse	USB- 1.1 not supported	Connection to MDM	Connection to MDM
Connector	USB- Type B connector	USB- Type B connector	USB- Type B connector
Recording	not supported	supported	supported
Storage Capacity	n.a.	32GB	32GB

Note 1: Depends on switch #1. Details on page no. 4.



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Power Supply	
Power Input connector	IEC 320/C8
Input Voltage [V]	100 - 240 AC
Input Frequency [Hz]	47 - 63
Input Current	max. 0.6A typ. <0.1A @230VAC
Isolation	4KV AC

Ethernet Interface	
Connector	RJ45
Speed	10/100/1000BaseT
Isolation	4KV AC

USB	
USB Connection (not supported yet)	USB 2.0
USB connector	USB type A, or with adapter cable type B
USB Speed	low/high speed

Decoded DVI Out	
Decoded DVI Out (not supported yet)	DVI-single link
Connector	DVI-D
Resolution	none, not used

Audio Out	
Output	Headphone (stereo)
Connector	3.5mm jack plug
Electrical Power	60mW @16Ohm

Audio In	
Input	Microphone
Connector	3.5mm jack plug
Electrical Power	60mW @16Ohm

Mechanical Specification	
Unpackaged Size	(w)224x(h)48x(d)160 mm
Unpackaged Weight	1 kg
Packaged Size	(w)340x(h)100x(d)230 mm

Electrical Safety & EMC Specifications	
Electrical Safety	IEC60601, EN60601, UL60601
EMC	According EN55022 & EN55024
Radiated Emissions	FCC class B
Immunity	IEC 610004 2-11
Markings	UL, CE, WEEE

H264 Stream	
Encoding	H.264 (ISO/IEC 14496-10) High Profile @ Level 4.1
Color conversion	4.2.0
Stream Protocol	RTSP
Frame Rate	Fixed per bandwidth selection
Traffic	Variable Quality, constant Bit rate, Bit rate selectable
QoS	traffic shaping
User Interface	Web Browser Interface
Configuration Parameter	stored on removable SD-card

Environmental Specifications	
Unpackaged Operating Temperature	5 °C to 40 °C according EN 60068-2-1/2
Unpackaged Operating Humidity	Damp heat, 25°C, 10 to 80% RH (non condensing) according EN 60068-2-38.
Unpackaged Operating Pressure	700-1060 hPa (525 -795 mmHg) or up to 3000m (10,000ft).
Packaged Non-Operating Temperature (Storage, Transportation)	-40 °C to +70 °C according EN 60068-2-1/2
Packaged Non-Operating Humidity	+25°C 10 to 95% RH (non-condensing) according 60068-2-38.
Packaged Non-Operating Pressure	500 -1060 hPa (375 -795 mmHg) or up to 5,050m (18,000 ft).
Packaged Tests Continuous Shock	according EN 60068-2-29 and EN60721-3-2, class 2M2.
Package Drop Test	according EN 24180-2.
Sound Noise Level	No noise emitted.

Reliability	
MTBF	72000h

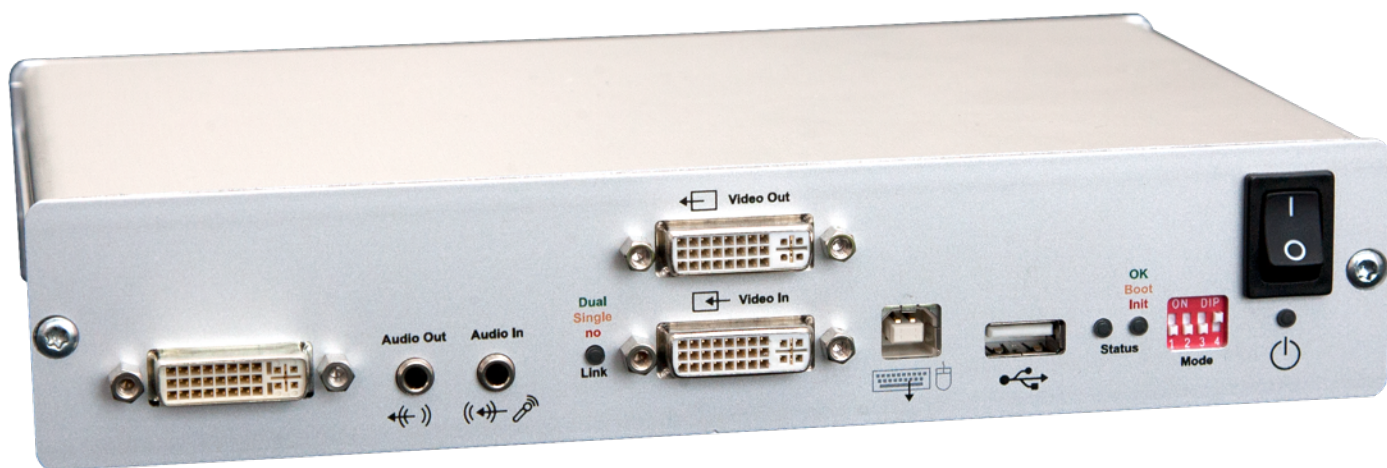
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Switch	Operating Mode	
1	On	Repeater Mode: Off. Use this setting when no display is connected at the 'Video Out' connector. In this case the EDID-Data are supplied by the TT-264-S. No 5V standby power is connected to the 'Video Out' connector. See the browser interface how to set up the EDID-Data.
	Off	Repeater Mode: On. Use this setting when a display is connected at the 'Video Out connector. The EDID-Data are supplied by the display connected to the Video In' connector and 5V standby power is connected to the 'Video Out' connector.
2		Not used
3	On	Use DHCP server to get the network settings
	Off	Set up network settings manually
4	On	This is a 'Master' TT-264 device. Default setting when one TT-264 device is used only. For more details see the 'TT-264 User Manual'.
	Off	This is not a 'Master' TT-264 device.



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