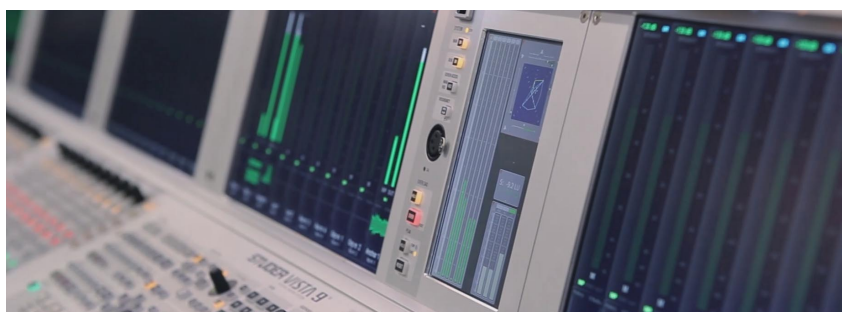


Specific Data Sheet for 20700STU16



Hardware

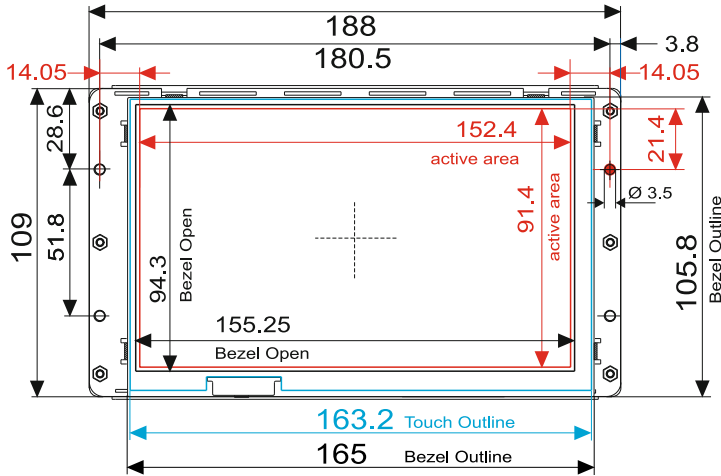
20700STU16

- OEM version especially for Studer mixing consoles
 - 7" touch screen 16 : 9 TFT (800 x 480 pixel)
 - 16-channel digital audio interfaces (8 x AES3)
 - Connectors for Ethernet, VGA, 2 x USB 2.0, GPIO
 - Studer-specific 24 V DC connector (Phoenix DMCV)
 - Fully scalable, modular software approach for flexible configuration and easy on-site upgrades
 - Highly flexible screen layout options with scalable instruments
 - 8-channel digital PPM, True Peak, Phase Meter, Global Keyboard (Basic software and SW20001)
 - Loudness (EBU R128, ITU, ATSC A/85, ARIB, OP-59, AG-COM, CALM, LEQ(M), TASA, SAWA) and SPL (SW20002)
 - Additional selectable software licences:
 - SSA - Surround Sound Analyzer (SW20004)
 - Premium PPM plus Vectorscope (SW20006)
- Further information can be found in the common data sheet of TouchMonitor TM7.

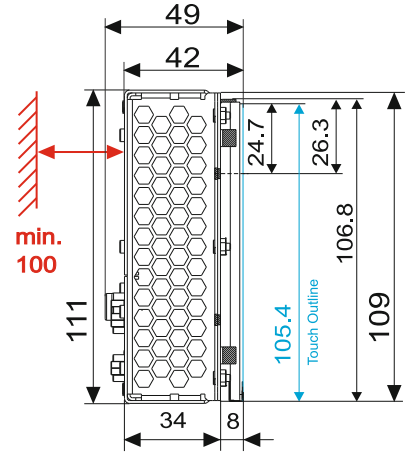


Dimensions

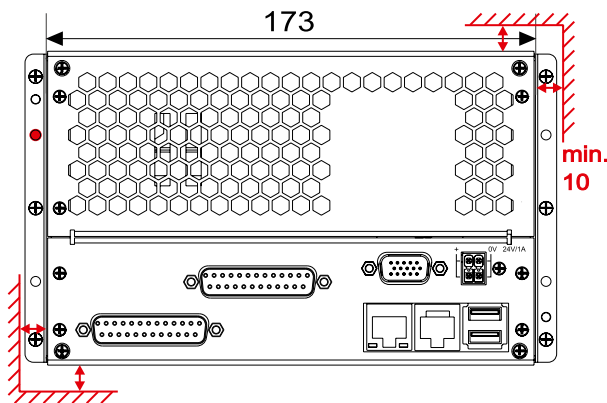
TouchMonitor TM7 20700STU16 Studer panel-mount version with 16 digital In-/Outputs



1 | Front view (dimensions in mm, tolerance: ± 0.2 mm)

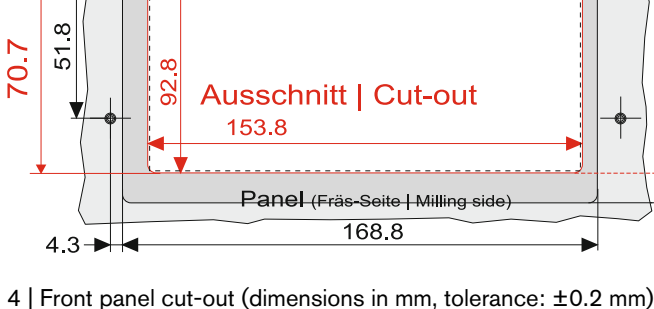
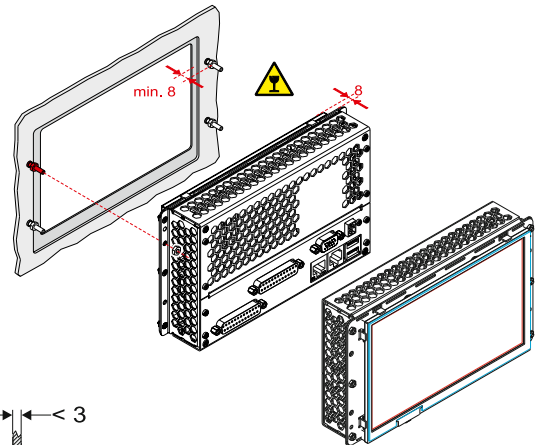


2 | Side view (dimensions in mm, tolerance: ± 0.5 mm)

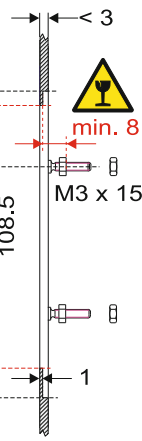


3 | Rear view (dimensions in mm, tolerance: ± 0.5 mm)

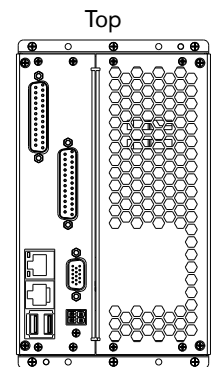
! For adequate ventilation a minimum space is required: min. 10 mm at all sides and min. 100 mm on the rear side!



4 | Front panel cut-out (dimensions in mm, tolerance: ± 0.2 mm)



5 | Vertical mounting orientation

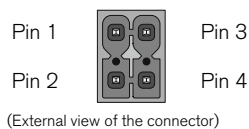


Connectors

24 V - 1 A (4-pin locking low voltage connector „Phoenix DMCV“)

Pin: Function:

1	+24 V DC
2	+24 V DC
3	0 V
4	0 V



(External view of the connector)

NOTE - An external overcurrent protective device (2 A max.) shall be installed when using an external 24 V DC power supply!

GP IO (RJ-12 6P6C socket)

External control of functions and presets recall as defined in the Global Keyboard menu. The inputs defined as „active low“ have to be switched against 0 V (Pin 1).

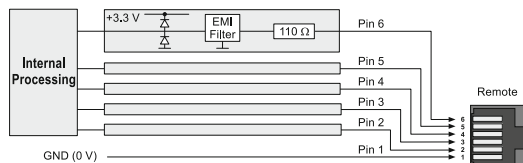
Pin: Function:

1	GND
2 - 6	Function acc. to definition in the menu



(External view of the connector)

Block diagram of the GPIO interface



LAN

RJ-45 standard network connector (10/100 MBit)

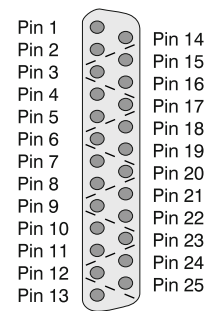
USB-A

2 Full Speed USB 2.0 interfaces for connecting USB flash drives (for licence handling, presets, et. al.), external mouse or Wacom® tablet

AES3 I/O 1 - 4, AES3 I/O 5 - 8 (transformer-bal., 25-pin Sub-D-F)

Pin: Function:

1	Digital output 4 resp. 8 (+, hot)
14	Digital output 4 resp. 8 (-, cold)
2	Shield/chassis
15	Digital output 3 resp. 7 (+, hot)
3	Digital output 3 resp. 7 (-, cold)
16	Shield/chassis
4	Digital output 2 resp. 6 (+, hot)
17	Digital output 2 resp. 6 (-, cold)
5	Shield/chassis
18	Digital output 1 resp. 5 (+, hot)
6	Digital output 1 resp. 5 (-, cold)
19	Shield/chassis
7	Digital input 4 resp. 8 (+, hot)
20	Digital input 4 resp. 8 (-, cold)
8	Shield/chassis
21	Digital input 3 resp. 7 (+, hot)
9	Digital input 3 resp. 7 (-, cold)
22	Shield/chassis
10	Digital input 2 resp. 6 (+, hot)
23	Digital input 2 resp. 6 (-, cold)
11	Shield/chassis
24	Digital input 1 resp. 5 (+, hot)
12	Digital input 1 resp. 5 (-, cold)
25	Shield/chassis
13	not used



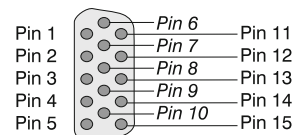
(External view of the connector)

NOTE - The AES3 inputs are permanently terminated with 110 Ω.

VGA (15-pin Sub-D-F)

Pin: Function:

1	R Video signal
2	G
3	B
4 - 8	GND
9	+5 V
10	GND
11	GND
12	SDA
13	H-sync
14	V-sync
15	SCI



(External view of the connector)

NOTE - The VGA cable shell not exceed 10 to 15 m length!