

HTT70A

For all variants of the HTT70A

Hardware Manual

Revision 1.0



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Revision History

Revision	Date	Description	Author
1.0	November 6, 2017	First Release	Daniel Divino

HTT70A Technical Specifications

The HTT70 is a 7.0" TFT display with an HDMI interface. The 800x480 resolution offers crisp images, and video feedback, with 24-bit Full colour capabilities. The HTT can be configured with resistive, capacitive, or non-touch panels, making this display suitable for any application.

Available Headers

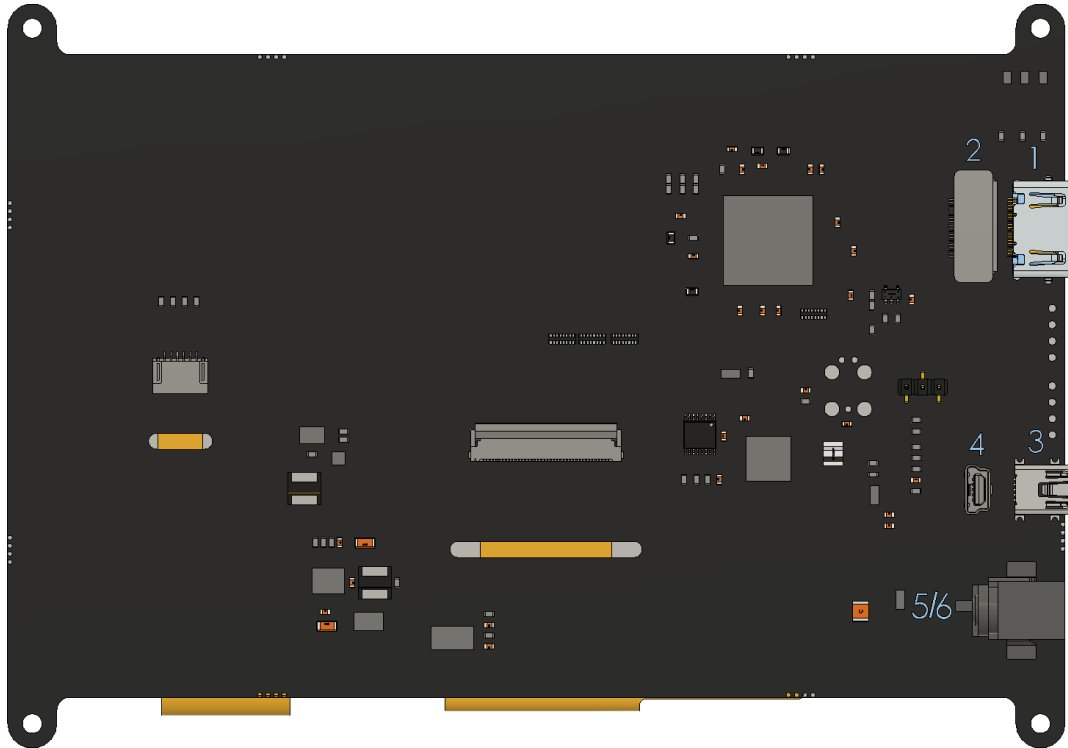


Figure 1: HTT70A Headers

Table 1: HTT70A Headers and Mates

#	Header	Standard Mate	Population
1	HDMI Port, Horizontal, Type A Standard	Type A Standard HDMI Cable	-H5
2	HDMI Port, Vertical, Type A Standard	Type A Standard HDMI Cable	-H6
3	Mini USB, Horizontal: Touch & Power	Mini-B USB Cable	-H5
4	Mini USB, Vertical: Touch & Power	Mini-B USB Cable	-H6
5	Barrel Jack: 2.1mm Center Positive	Power Adaptor	-H6
6	External Power, 2-1445057-2	Micro MATE-N-LOCK 1445022-2	-VPT model

Dimensional Drawing

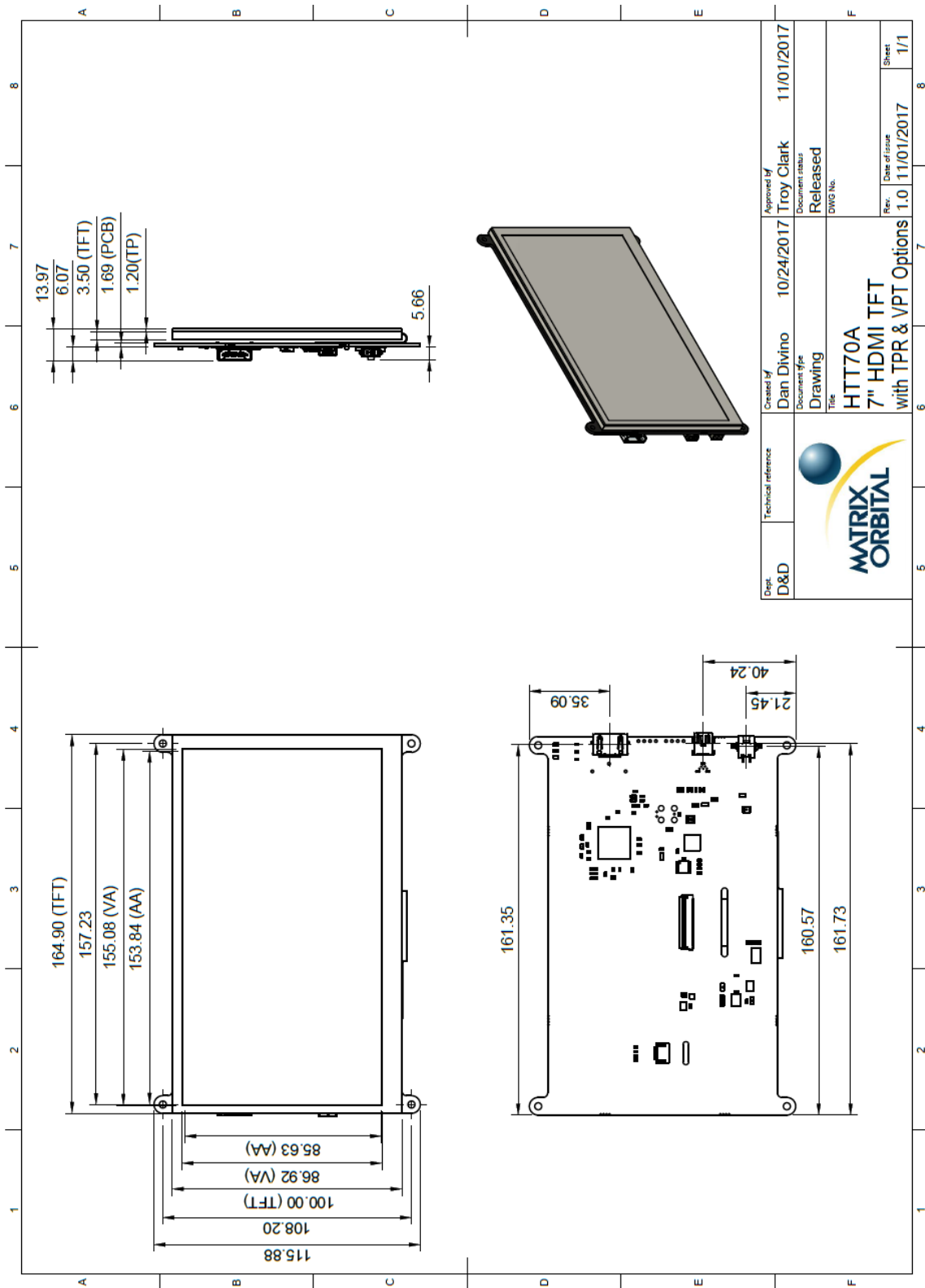


Figure 2: HTT70A Dimensional Drawing

Characteristics

Optical

Table 2: HTT70A Optical Characteristics

Module Size	164.90 x 115.88 x 12.77	mm
Viewing Area	157.00 x 89.10	mm
Active Area	153.84 x 85.63	mm
Pixel Pattern	800 x 480 x 24bit RGB	
Pixel Pitch	0.1923 x 0.1784	mm
Luminance	520	cd/m ²
Viewing Angle	70° Left, Right, Up 60° Down	
Contrast Ratio	500:1	
Backlight Half-Life	20,000 hours	

Power

Table 3: HTT70A Typical Power Characteristics

Parameter	Min	Typ	Max	Unit	Remarks
Logic	-	375	-	mA	Backlight Off
Backlight	0	-	465	mA	Off, Mid, Max

Table 4: HTT50A Maximum Power Characteristics

Parameter	Min	Typ	Max	Unit	Remarks
Supply Voltage	4.75	5.0	5.25	V	Standard Voltage (V5)
	5.0	12.0	35.0	V	Wide Voltage (VPT)

Environmental

Table 5: HTT70A Environmental Characteristics

Operating Temperature	0°C to +70°C
Storage Temperature	-30°C to +80°C
Operating Relative Humidity*	90% (T < 60°C)

*Note: No condensation at any temperature

Options

Table 6: Part Numbering Scheme

HTT	70	A	-TPR	-BLM	-B0	-H5	-CH	-V5
1	2	3	4	5	6	7	8	9

Table 7: Display Options

#	Designator	Options
1	Product Type	HTT: Graphic TFT Display
2	Display Size	70: 7.0"
3	Screen Type	A: A Type
4	Touch	-TPN: No touch panel -TPR: Resistive touch panel -TPC: Capacitive touch panel
5	Backlight	-BLM: 300 Nit < Brightness < 600 Nit -BLH: 600 Nit < Brightness < 1000 Nit -BLD: Brightness > 1000 Nit
6	Bezel	-B0: None
7	Headers	-H5: Horizontal Connectors -H6: Vertical Connectors
8	Protocol	-CH: HDMI interface
9	Voltage	-V5: 5.0V Input Voltage -VPT: Regulated 5V - 35V Input Voltage

Power Options

Table 8: Powering Options

Option	Voltage Input
V5	USB Header
VPT	Barrel Jack/External Power Header

Recommended Accessories

HDMI Cable



Figure 3: HDMI Cable

Part Number:
HDMI3FT or HDMI6FT

Description:
3ft (1m) or 6ft (2m) HDMI Cable

USB Cable



Figure 4: EXTMUSB3FT

Part Number:
EXTMUSB3FT

Description:
3ft (1m) Mini-B USB Cable

Power Adaptor



Figure 5: PWR-ACDC-5V2A

Part Number:
PWR-ACDC-5V2A

Description:
9ft (2.7m) AC to DC power adapter with 2.1mm center positive barrel jack.

Input Voltage: 100-240V AC
Output Voltage: 5V DC @ 2A

AC Plugs Included: North American (NEMA), Europlug (Type C), UK (Type G), Australia/China/New Zealand/Argentina (Type I)

Support

Phone: 403.229.2737

Email: support@matrixorbital.ca

Manuals and Drivers: <http://www.matrixorbital.ca>

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