



MATRIX ORBITAL HTT70 7.0 Inch TFT Display with HDMI Interface User Manual

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MATRIX ORBITAL HTT70 7.0 Inch TFT Display with HDMI Interface



For all variants of the HTT70

Hardware Manual Revision 1.1

Revision History

Revision	Date	Description	Author
1.1	February 22, 2018	Added -TPC variant drawing	Divino

HTT70 Technical Specifications

The HTT70 is a 7.0" TFT display with an HDMI interface. The 800×480 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

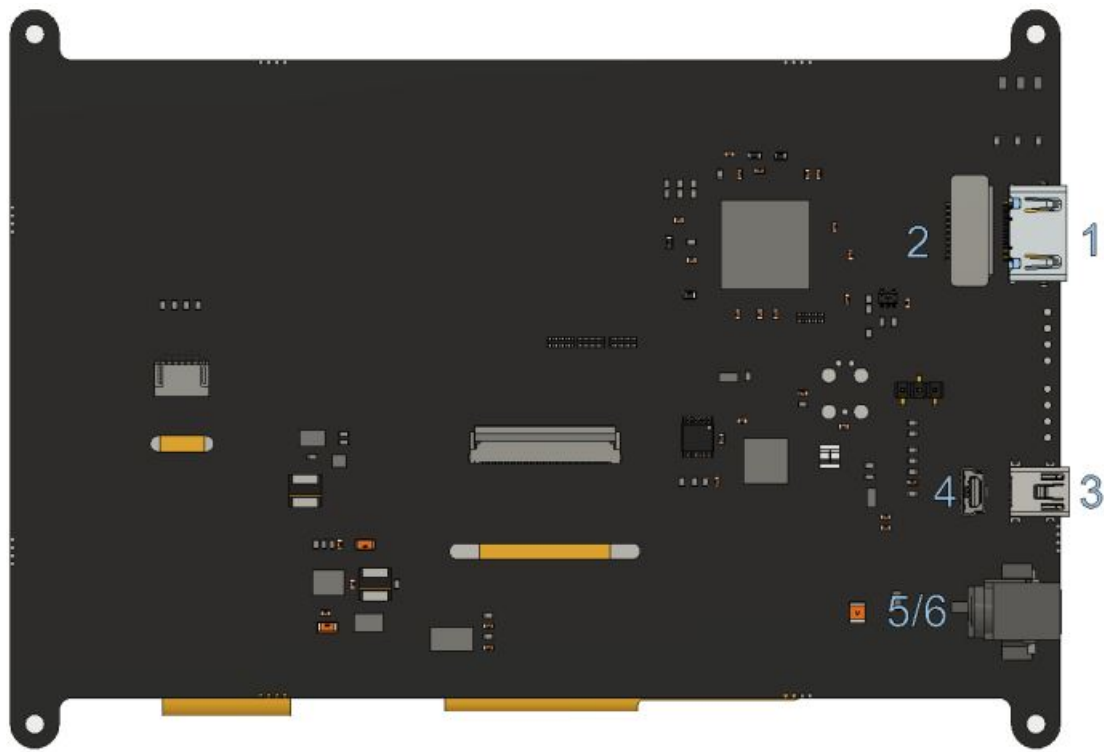
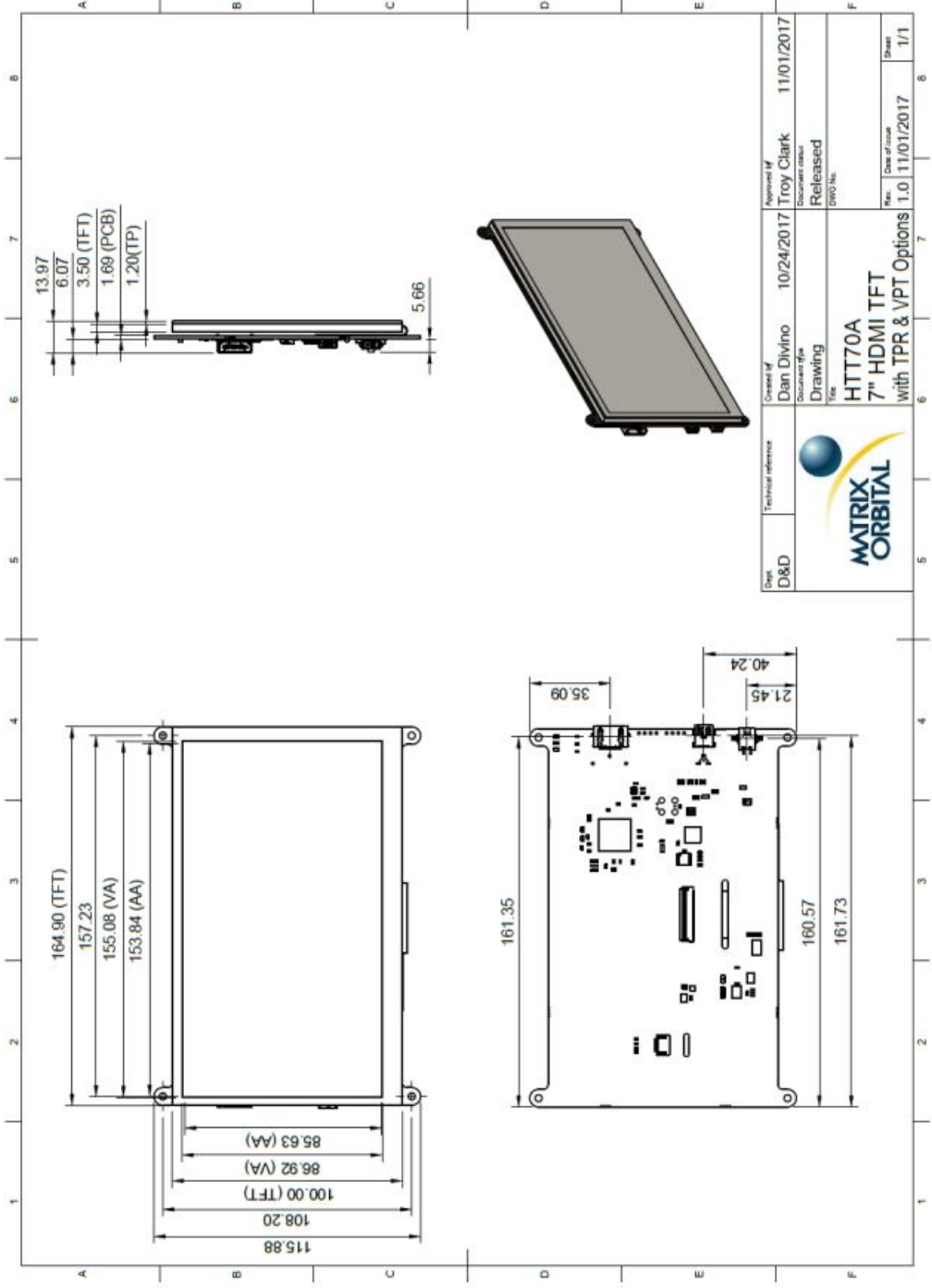


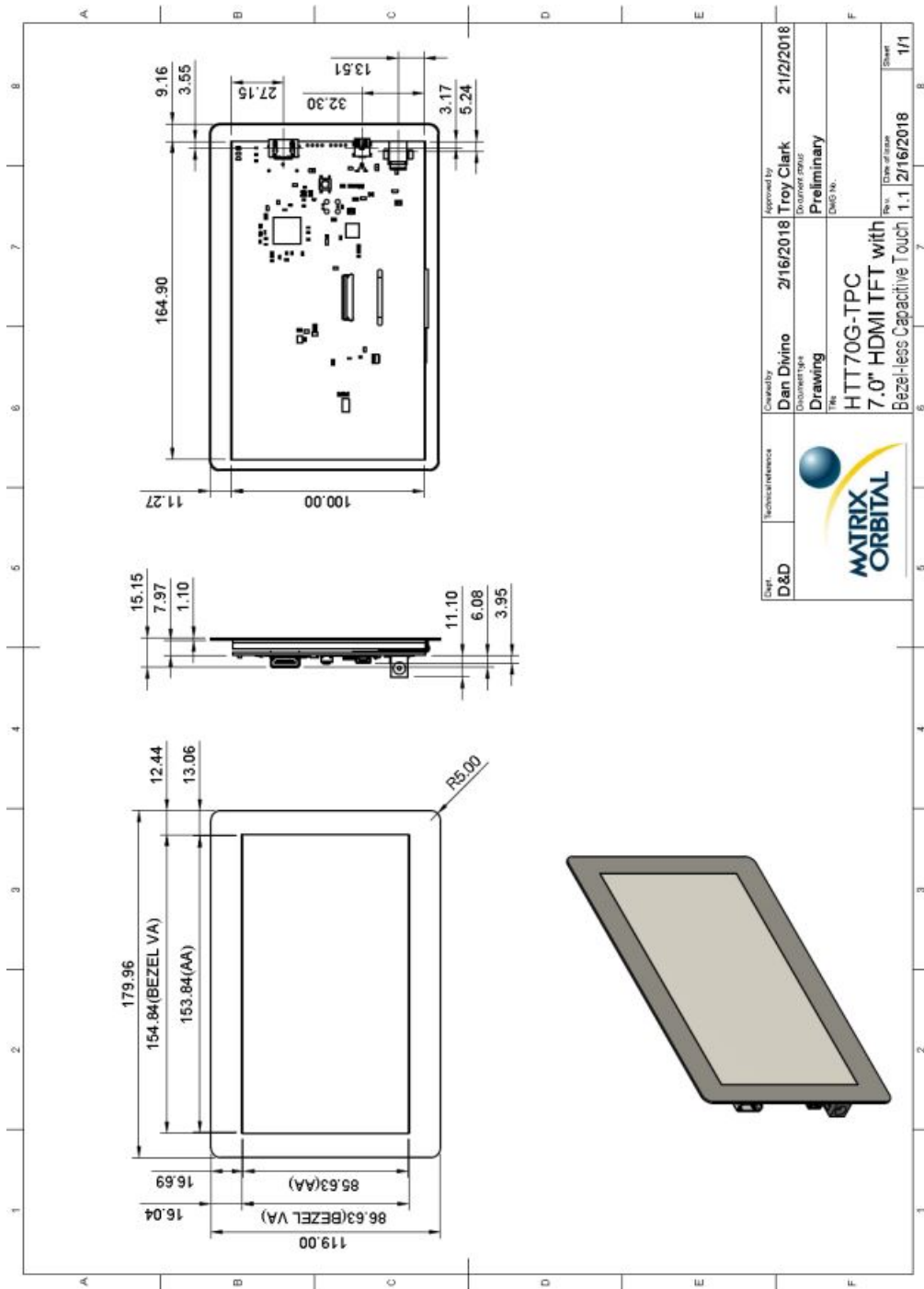
Figure 1: HTT70A Headers

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 Drawings





Characteristics

Optical

Table 2: HTT70 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: HTT70 Typical Power Characteristics

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

Table 4: HTT70 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: HTT70 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 G: G Type
4	Touch	-TPN: No touch panel -TPR: Resistive touch panel -TPC: Capacitive touch panel -CTB: Bezel-less 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

Part Number:

HDMI3FT or HDMI6FT

Description:

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



USB Cable

Part Number:

EXTMUSB3FT

Description:

3ft (1m) Mini-B USB Cable



Power Adaptor

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> **Forums:** <http://www.lcdforums.com/forums>

Contact

- **Sales**

Phone: 403.229.2737

Email: sales@matrixorbital.ca

- **Support**

Phone: 403.229.2737

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- **Online**

Purchasing: www.matrixorbital.com

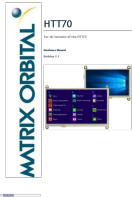
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	MATRIX ORBITAL HTT70 7.0 Inch TFT Display with HDMI Interface [pdf] User Manual HTT70, 7.0 Inch TFT Display with HDMI Interface, HTT70 7.0 Inch TFT Display with HDMI Interface, HTT70 7.0 Inch TFT Display, 7.0 Inch TFT Display, TFT Display
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References

-  [Matrix Orbital Corp - LCD Displays Forums](#)
-  [Matrixorbital Support Site - Home](#)
-  [Matrix Orbital Display Solution Provider](#)

[Manuals+](#)