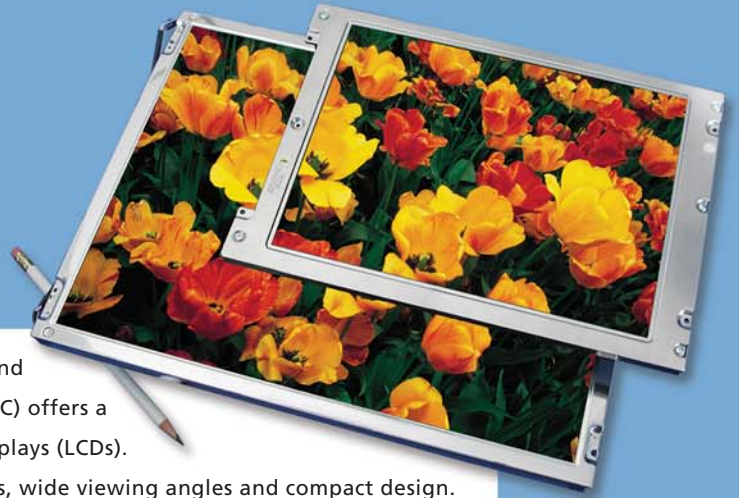


# Displays

Toshiba offers four categories of active-matrix TFT LCD products:

- Mid-size LCDs for automotive and audio visual applications
- Large-size, high-brightness for industrial and AV applications
- Large-size low-power LCDs for battery-powered applications
- Small-size LCDs for hand-held and portable applications



To meet the growing worldwide demand for portable computing and communications, Toshiba America Electronic Components, Inc. (TAEC) offers a wide variety of state-of-the-art color active matrix liquid crystal displays (LCDs).

> TAEC's mid-size line-up of TFT LCD displays offers high-brightness, wide viewing angles and compact design. These displays are suitable for various AV, industrial, and automotive applications, such as in consumer video, monitoring, navigation, and entertainment markets. > Our large-size high-brightness line-up consists of TFT LCDs suitable for AC-powered applications requiring far higher brightness than typically found in portable applications. These high-brightness LCDs, in sizes ranging from 6.5" to 15.0", are designed for applications such as P.O.S. terminals, kiosks, factory automation monitors, and other industrial instrumentation devices. In addition, they offer long-life and easy-to-service backlighting systems. > TAEC's large-size low temperature poly-silicon (LTPS) TFT LCD line-up is designed for use in the dynamic portable PC market, such as in notebooks, Tablet PCs or other handheld devices. These LTPS LCDs incorporate our most advanced technologies and are continuously upgraded to be one of the brightest, lightest, thinnest, and lowest power consumption LCDs in their class. > TAEC's mobile TFT LCD line-up is designed for emerging portable applications, color cellphone applications and other handheld devices. > Our technical leadership is exemplified by our LTPS LCDs, which are well suited for leading-edge, emerging applications desiring very high-resolution and photo-like image quality. > A listing of TAEC's main promotion display models and the corresponding technical specifications can be found on the reverse side. Additional models are available. For more information, please contact a local TAEC sales representative at: [toshiba.com/taec](http://toshiba.com/taec).



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# LCD Products

## High Brightness TFT LCDs (Applications that are not limited by power consumption)

Part Number	Display Size/Pixels	Outline Dimensions (mm)	Luminance (cd/m <sup>2</sup> ) (typical low/hi)	Power Consumption (typical) (W)	Weight (g)	I/F Signal	Supply Voltage (v)	RoHS Compatible**
LTA065A043F	6.5" (17cm)/640x480	151.0(W) x 115.5(H) x 10.0max(D)	400	4.2	205	CMOS	3.3	Yes
LTA065B0D0F	6.5" (17cm)/640x480	153.0(W) x 118.0(H) x 11.0max(D)	400	4.2	250	CMOS	3.3	Yes
LTA065B0E0F	6.5" (17cm)/640x480	153.0(W) x 118.0(H) x 11.0max(D)	250	4.2	250	CMOS	3.3	Yes
LTM08C351S <sup>(1)</sup>	8.4" (21cm)/800x600	199.5(W) x 149.5(H) x 12.0max(D)	350	6.4	385	CMOS	3.3	Yes
LTM08C351L <sup>(1)</sup>	8.4" (21cm)/800x600	199.5(W) x 149.5(H) x 12.0max(D)	350	6.4	385	LVDS	3.3	Yes
LTD085CK1S	8.5" (22cm)/800x480	222.7(W) x 130.6(H) x 12.5max(D)	240	4.7	450	CMOS	3.3	Yes
LTD104C11S <sup>(2)</sup>	10.4" (26cm)/640x480	238.5(W) x 177.5(H) x 12.0max(D)	400	6.2	500	CMOS	3.3/5.0	Yes
LTD121C30S <sup>(2)</sup>	12.1" (31cm)/800x600	278.3(W) x 209.0(H) x 11.0max(D)	350	7.2	680	CMOS	3.3	Yes
LTD121C33S	12.1" (31cm)/800x600	278.3(W) x 209.0(H) x 11.0max(D)	350	7.5	680	LVDS	3.3	Yes
LTD121C31S <sup>(2)</sup>	12.1" (31cm)/800x600	278.3(W) x 209.0(H) x 11.0max(D)	250	7.2	670	CMOS	3.3	Yes
LTD121C32S	12.1" (31cm)/800x600	278.3(W) x 209.0(H) x 11.0max(D)	250	7.5	670	LVDS	3.3	Yes
LTD121GAOS <sup>(1)</sup>	12.1" (31cm)/1024x768	278.3(W) x 209.0(H) x 12.0max(D)	350	7.7	660	LVDS	3.3	Yes
LTM15C458M	15.0" (38cm)/1024x768	331.6(W) x 254.7(H) x 13.0max(D)	350	16.5	1200	LVDS	3.3	Yes
LTM15C458T <sup>(3)</sup>	15.0" (38cm)/1024x768	331.6(W) x 254.7(H) x 13.5max(D)	350	16.9	1210	1-LVDS	3.3	Yes

## Low Power TFT LCDs (Designed for battery-powered applications in which low power consumption is critical)

Part Number	Display Size/Pixels	Outline Dimensions (mm)	Luminance (cd/m <sup>2</sup> ) (typical low/hi)	Power Consumption (typical) (W)	Weight (g)	I/F Signal	Supply Voltage (v)	RoHS Compatible**
LTM09C362Z <sup>(1)</sup>	8.9" (22cm)/1024x600	224.0(W) x 129.0(H) x 5.2max(D)	220	3.4@220cd/m <sup>2</sup>	160	LVDS	3.3	Yes
LTD104EA5S <sup>(1)</sup>	10.4" (26cm)/1024x768	237.7(W) x 173.2(H) x 4.9max(D)	180	3.7@180cd/m <sup>2</sup>	195	LVDS	3.3	Yes
LTD104KA1S <sup>(1,4)</sup>	10.4" (26cm)/1024x768	238.6(W) x 173.2(H) x 6.4max(D)	170	3.68@170cd/m <sup>2</sup>	195	LVDS	3.3	Yes
LTD121EC5S <sup>(1)</sup>	12.1" (31cm)/1024x768	261.0(W) x 199.0(H) x 5.0max(D)	200	4.44@200cd/m <sup>2</sup>	265	LVDS	3.3	Yes
LTD121KAOS <sup>(1,4)</sup>	12.1" (31cm)/1024x768	269.0(W) x 199.0(H) x 6.5max(D)	170	4.36@170cd/m <sup>2</sup>	280	LVDS	3.3	Yes
LTD133ECKS <sup>(1)</sup>	13.3" (34cm)/1024x768	284.0(W) x 214.5(H) x 5.5max(D)	200	4.7@200cd/m <sup>2</sup>	350	LVDS	3.3	Yes
LTD141ECS <sup>(1)</sup>	14.1" (36cm)/1024x768	299.0(W) x 228.0(H) x 5.5max(D)	160	4.77@160cd/m <sup>2</sup>	450	LVDS	3.3	Yes

## Mobile TFT LCDs (Designed for hand-held and portable applications in which low power consumption is critical)

Part Number	Display Size/Pixels	Outline Dimensions (mm)	Luminance (cd/m <sup>2</sup> ) (typical low/hi)	Power Consumption (typical) (W)	Weight (g)	I/F Signal	Supply Voltage (v)	RoHS Compatible**
LTD056ET0S <sup>(1)</sup>	5.6" (14cm)/1024x600	141.8(W) x 84.4(H) x 7.5max(D)	165	2.7@120cd/m <sup>2</sup>	75	LVDS	3.3	Yes

## AV Use TFT LCDs (Analog Interface)

Part Number	Display Size/Pixels	Outline Dimensions (mm)	Luminance (cd/m <sup>2</sup> ) (typical low/hi)	Power Consumption (typical) (W)	Weight (g)	I/F Signal	Supply Voltage (v)	RoHS Compatible**
LTA050B352A <sup>(5)</sup>	5.0" (13cm)/480x234	123.4(W) x 76.5(H) x 3.8max(D)	240	Multiple	67	Analog	TBD	Yes
LTA070B0N0A	7.0" (18cm)/480x234	166.0(W) x 100.0(H) x 7.0max(D)	400	Multiple	175	Analog	TBD	Yes
LTA080B820A	8.0" (21cm)/480x234	187.0(W) x 113.0(H) x 6.7max(D)	350	Multiple	185	Analog	TBD	Yes
LTA090A149A	9.0" (23cm)/480x234	215.0(W) x 126.4(H) x 7.0max(D)	370	Multiple	250	Analog	TBD	Yes

### Notes:

- (1): Low Temperature poly-Silicon (p-Si) technology  
 (2): 2 I/F Connectors (For Horizontal/Vertical Reverse)  
 (3): Non-Inversion Type

- (4): Developed for Tablet PCs  
 (5): LED Backlit

Please contact a TAEC representative regarding automotive, and cell phone applications.

For more information, please contact your local sales representative at: [toshiba.com/taec](http://toshiba.com/taec)

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