

TFT LCD Matrix - Small and Medium Displays

| Size | Resolution | Maker | Part Number | Outline Dimension [mm] | Interface | Power | Colors | Brightness [cd/m2] | Viewing Cone [L,R,U,D] | Backlight | Touch | Recommended NXP MCU | Comment |
|--------|------------|---------|--------------------------|------------------------|-------------------------|-----------------|------------|--------------------|------------------------|-----------|-------|----------------------------------|---|
| 2.2" | 176 x 220 | Hyundai | HDT-176G220-22MT-12 | 40.3x54.36x2.4 | MCU IF 8/16bit | 3.0V | 65K | 220 | 45,45,50,20 | LED | no? | TBD | DIC ILI9225B |
| | 240 x 320 | EDT | ET022002DMU | 40.1x56.9x3.65 | RGB & MCU | 2.8V | 262K | 300 | 75,75,70,45 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| 2.4" | 240 x 320 | Hyundai | HD-240G320-TX24 | 42.72x59.26x2.75 | MCU IF 16/18bit | 3.0V | 262K | 220 | 45,45,50,20 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | DIC ILI9325 |
| | | Hyundai | HD-240G320-TX24P | 42.72x59.26x3.8 | MCU IF 16bit | 2.8V | 65K | 200 | 40,40,40,40 | LED | 4 W | LPC2470/LPC2478 /LPC3230/LPC3250 | DIC ILI9325 |
| | | EDT | ET024006DMU | 42.7x60.26x3.0 | MCU IF, SPI | 2.8V | 262K | 300 | 75,75,70,60 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| 2.8" | 240 x 320 | Hyundai | HD-240G320-TX28 | 50x69.2x3.8 | MCU IF 8/16bit | 3.0V | 262K | 220 | 45,45,50,20 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | DIC ILI9325 |
| | 240 x 400 | Hyundai | HD-240G400-28MT-12 | 43.9x73.1x2.55 | MCU IF 16/18bit | 3.2V | 262K | 220 | 65,65,60,30 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | DIC ILI9326 |
| 3.0" W | 240 x 400 | Hyundai | HDT-240G400-30MT-12 | 45.04x77x2.65 | MCU IF 8bit | 2.8V | 262K | 250 | 65,65,70,40 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | DIC ILI9327 |
| | | Optrex | T-55149GD030J-MLW-AJN | 47.28x76.4x4.4 | 80/68/RGB | 1.8V, 2.8V | 262K | 400 | 70,70,80,58 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | transflective, 20% reflectance(CR 13) |
| 3.5" | 240 x 320 | Optrex | T-51963GD035J-MLW-AGN | 65x86.2x4.0 | 6bit CMOS | 3.3V& etc | 262K | 130 | 40,40,40,40 | LED | yes | LPC2470/LPC2478 /LPC3230/LPC3250 | transflective, 20% reflectance(CR 13) |
| | 320 x 240 | Hyundai | HD-320G240-35MT-6F4 V.A | 76.9x63.9x3.15 | TTL 8bit, CCIR 601, 656 | 3.3V | 16.7M | 300 | 60,60,50,60 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| | | Optrex | T-55343GD035JU-LW-AEN | 79x65x4.4 | 8bit w SPI | 3.3V | 16M | 400 | 80,80,80,80 | LED | yes | LPC2470/LPC2478 /LPC3230/LPC3250 | AG, 12'O clock |
| 4.3" W | 480 x 272 | LGD | LB043WQ3-TD01 | 105.5x67.2x4.0 | TTL 8bit | 2.5V or 3.3V | 16M | 350 | 70,70,65,55 | 10 LED | 4W R | LPC2470/LPC2478 /LPC3230/LPC3250 | FPC 45P(0.3mm), location changed |
| | | Cheonjo | LMS430HF18-4WR | 105.5x67.2x5.0(?) | TTL 8bit | 3.3V | 16M | 320 | 80,80,80,80 | 10 LED | 4W R | LPC2470/LPC2478 /LPC3230/LPC3250 | TMR, VA |
| | | Hyundai | HD-480G272-43MTP-6F | 105.5x67.2x4.04 | TTL 8bit | 3.3V | 16.7M | 280 | 60,60,40,55 | LED | 4W R | LPC2470/LPC2478 /LPC3230/LPC3250 | HD-480G272-43MT-6F(without touch) |
| 5.0" W | 800 x 480 | Hyundai | HD-800G480-50MT-12 | 120.7x75.8x3.1 | TTL 8bit | 3.3V | 16.7M | 400 | 75,75,60,70 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| | | Optrex | T-55423GD050J-LW-AAN | 118.5x77.8x4.7 | 8bit CMOS | 3.3V,5V | 16.7M | 200 | 85,85,85,85 | LED | 4W R | LPC2470/LPC2478 /LPC3230/LPC3250 | normally black(IPS) |
| 5.6" W | 1280 x 800 | Hydis | HV056WX1-100 | 131.7x87.7x4.7 | LVDS | 3.3V | 262K | 300 | 85,85,85,85 | LED | no | no LVDS support | AFFS |
| 5.7" | 320 x 240 | EDT | ET057011DM6 | 124.7x100x10.5 | TTL 8bit | 3.3V | 16.7M | 500 | 75,75,60,75 | LEDs | no | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| | | EDT | ET057011DH6 | 124.7x100x12.3 | TTL 8bit | 3.3V | 16.7M | 450 | 75,75,60,75 | LEDs | yes | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| | 640 X 480 | Optrex | AA057VF02 | 135x104.6x8.85 | 6bit CMOS | 3.3V | 262K | 400 | 80,80,80,60 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | LED driver built-in |
| 6.4" | 640 x 480 | LGD | LB064V02-TD01 | 145.5x111.5x6.0 | TTL 6bit | 3.3V | 262K | 250 | 65,65,50,60 | 1 CCFL | no | LPC2470/LPC2478 /LPC3230/LPC3250 | LXMG1618A-12-42, GH025A |
| 6.5" | 640 X 480 | Optrex | T-51750GD065J-LW-AQN | 158x120.36x12.15 | 6bit CMOS | 3.3 or 5V | 262K | 600 | 55,55,30,60 | LED | 4W R | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| | | Optrex | T-55465D065J-LW-A-ABN | 154x121x11 | 6bit CMOS | 3.3V | 262K | 700 | 80,80,80,60 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | anti-reflective |
| 7.0" W | 800 x 480 | LGD | LB070WV6-TD06 | 165x104.6x3.3 | TTL 8bit | 3.3V | 16.7M | 350 | 65,65,50,60 | 3x7 LEDs | no | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| | | Cheonjo | LB070WV6-TD06-4WR | 165x104.6x4.3(?) | TTL 8bit | 3.3V | 16.7M | 280 | 65,65,50,60 | 3x7 LEDs | no | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| | | CMO | G070Y2-L01 | 165X104x9.27 | 6/8bit LVDS | 3.3V | 262K/16.7M | 500 | 70,70,60,60 | LEDs | no | no LVDS support | long life cycle, wide temp, automotive |
| | | Hyundai | HD-800G480-70MT-6F4(V.A) | 164.9x100x5.7 | TTL 8bit | 3.3V&more | 16.7M | 400 | 70,70,50,70 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | |
| 8.0" W | 800 x 480 | LGD | LB080WV4-TD02 | 199x121x10.6 | TTL 6bit | 5V | 262K | 600 | 70,70,50,60 | 2 CCFL | no | LPC2470/LPC2478 /LPC3230/LPC3250 | DE only, Logic 3.3V |
| | | CMO | G080Y1-T01 | 190x120x5.06 | TTL 6/8bit | 3.3V & more | 262K/16.7M | 600 | 70,70,60,60 | 54 LEDs | no | LPC2470/LPC2478 /LPC3230/LPC3250 | long life cycle, TCON board required |
| | | Hydis | HX080WV1-100 | 190x120x9.0 | TTL 6/8bit | 3.3V | 262K/16.7M | 600 | 89,89,89,89 | 32 LEDs | no | LPC2470/LPC2478 /LPC3230/LPC3250 | AFFS+ |
| 8.0" | 800 X 600 | Hyundai | HD-800G600-80MT-6F1 | 183x141x3.7 | TTL 8bit, SPI | 3.3V&more | 16.7M | 225 | 70,70,60,65 | LED | no | LPC2470/LPC2478 /LPC3230/LPC3250 | external gamma required |
| 8.4" | 800 x 600 | Optrex | T-55466D084J-LW-A-AAN | 199.5x149x11.5 | 6/8bit LVDS | 3.3V | 262K/16M | 600 | 80,80,80,60 | LED | no | no LVDS support | hi-brite, wide temp, LED life 60K |
| | 1024 x 768 | Optrex | T-51639D084JU-FW-A-AB | 205X152.4X11.3 | 6/8bit LVDS | 3.3V | 262K/16M | 300 | 65,65,60,50 | CCFL | no | no LVDS support | LXMG1627-12-41, FIF1521-05B |
| 8.9" W | 1280 x 768 | Hydis | HV089WX1-100 | 206.6x133x5.25 | 1ch LVDS | 3.3V & VAD | 262K | 300 | 89,89,89,89 | 36 LED | no | no LVDS, 1280 resolution support | Tablet PC, LED driver required, Micro coaxial |
| 9.7" | 1024 x 768 | Samsung | LTN097XL01 | 210.42x166.42x5.85 | 1ch LVDS | 3.3V | 262K | 300 | 80,80,80,80 | 36 LED | no | no LVDS support | LED driver included |
| 10.1" | 1024 x 600 | Samsung | LTN101NT06-2 | 235x143x5.2 | 1ch LVDS | 3.3V | 262K | 200 | 40,40,10,30 | LED | no | no LVDS support | LED driver included |
| | | LGD | LP101WSA-TLN1 | 235x143x5.2 | 1ch LVDS | 3.3V | 262K | 200 | 40,40,10,30 | LED | no | no LVDS support | |
| 10.1" | 1366 x 768 | Samsung | LTN101AT03 | 235x143x5.0 | 1ch LVDS | 3.3V | 262K | 200 | 45,45,20,40 | LED | no | no LVDS, 1366 resolution support | LED driver included |
| 10.2" | 1024 x 600 | Hyundai | HD-1024G600-102MT | 235x145.8x4.67 | 1ch LVDS | 3.3V,5V for LED | 262k | 220 | 40,40,15,30 | LED | no | no LVDS support | LED driver included |

* See separate spreadsheet for more Optrex panels

** See separate spreadsheet for NXP MCUs