# ADS Display Support List

by ADS Product

(listing by Resolution, Type and Size)

# AGC [S1D13806]

- 5 displays -

1024x768 XGA, Color Active TFT

6.4 NEC NL10276BC12-02 3.3V, CCFL backlight (2-tube), 0 to +65C, LVDS, can run in

18 or 24 bpp modes

800x600 SVGA, Color Active TFT

10.4 Sharp LQ104S1DG21 3.3 or 5V, CCFL backlight (2-tube), -10 to +65C, 3.3V data

640x480 VGA, Color Active TFT

6.5 NEC NL6448BC20-08 5.0V, CCFL backlight (2-tube), 0 to +60C

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

640x480 VGA, Color Multisync CRT

various Multisync VGA

# **AGX [PXA255]**

- 11 displays -

1024x768 XGA, Color Active TFT

15.0 Sharp LQ150X1LGN2 3.3V, CCFL backlight (2-tube), 0 to +50C, LVDS with option

to run in either 18 or 24bpp mode

800x600 SVGA, Color Active TFT

10.4 Optrex T-51410D104-FW-P-AD 3.3V, CCFL backlight (2-tube), 0 to +50C

10.4 Sharp LQ104S1DG21 3.3 or 5V, CCFL backlight (2-tube), -10 to +65C, 3.3V data

640x480 VGA, Color Active TFT

10.4 Sharp LQ104V1DG51 3.3 or 5V, CCFL backlight (2-tube), 0 to +50C, Vih>0.7Vcc.

Digital noise can sometimes affect display running at 3.3V.

10.4 Siemens G23916-B65-H035 3.3 or 5V, CCFL backlight (2-tube), -30 to +85C, integragted

backlight inverter requires +12V/1.6A

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

640x240 HVGA, Color Passive

6.5 Hitachi SX16H005-AZA 3.3V, Requires Vcon ~ 2V

320x240 QVGA, Color Active TFT

5.8 Kyocera TCG057QV1AD-G00 3.3V, CCFL backlight (1-tube), -10 to +70C

5.0 Sharp LQ050Q5DR01 3.3V, CCFL backlight, -30 to +85C

320x240 QVGA, Color Passive

5.7 Hantronix HDM3224ATS-C 5.0V, CCFL backlight (1-tube), 0 to +50C

# **AGX [PXA255]**

- 11 displays -

320x240 QVGA, Mono Passive

5.0V, CCFL backlight (1-tube), 0 to +50C, shading of some 5.9 Optrex DMF-50840

colors is uneven; may req hardware change to contrast circuit

#### **Bitsy**

- 25 displays -

800x600 SVGA, Color Active TFT

10.4 Unipac UB104S01-2 3.3V, 0 to +50C, LVDS, with touch screen

640x480 VGA, Color Active TFT

3.3V 10.4 LG Philips LP104V2

10.4 Sharp LQ104V1DG21 3.3 or 5V, CCFL backlight (2-tube), -10 to +65C, replaces

LQ104V1DG11

3.3 or 5V, CCFL backlight (2-tube), 0 to +50C, Vih>0.7Vcc. 10.4 Sharp LQ104V1DG51

Digital noise can sometimes affect display running at 3.3V.

3.3 or 5V, CCFL backlight (1-tube), 0 to +55C, Vih>0.7Vcc 8.4 Sharp LQ084V1DG21

6.4 Optrex T-51382D064-FW

5.0V, CCFL backlight (2-tube), 0 to +55C 6.4 Sharp LQ64D343

4.0 LG Philips LC040V01 3.3V 4.0 Toshiba LTM04C380K 3.3V

640x480 VGA, Color Passive

3.3 or 5V, CCFL backlight (1-tube), 0 to +45C, integrated 7.7 Panasonic EDMGRB8KJF

touch panel (EDMGRB8KAF has no touch); Vcon=0.8 to 2.8V

7.2 Kyocera KHS072VG1MB-G93 5.0V

640x350, Color Active TFT

3.3V 5.8 Sharp LQ058T5DRQ1

640x240 HVGA, Color Passive

3.3V 6.5 Kyocera KHB065HV1AC

3.3V 6.5 Sharp LM7M633

480x320, Mono Passive

3.3V, for high-contrast apps; end-of-life as of mid 2001 5.8 Sharp LM5H40TA

400x240, Color Active TFT

5.0V, requires +10V and -10V power supply 6.5 Sharp LQ065T9DR51

320x240 QVGA, Color Active TFT

3.3V, CCFL backlight (1-tube), -10 to +70C, RL=GND, 5.7 Sharp LQ057Q3DC02

UD=3.3V

5.0V 5.6 Unipac (eVision) EVD56D01V2

3.3V, CCFL backlight (2-tube), -10 to +70C, will work at 5V 5.5 NEC NL3224BC35-20

## **Bitsy**

- 25 displays -

320x240 QVGA, Color Active TFT

3.8 Sharp LQ038Q5DR01 3.3V, CCFL backlight (1-tube), -30 to +85C, high in-rush

current; some ADS products may need to use ext. 3.3V or

special ADS rework

3.5 Sharp LQ035Q2DD54 5.0V, good for indoor & outdoor use; requires adapter (eg.

avatar-eng.com SHP-LQ03-2-063-A-1)

320x240 QVGA, Color Passive

5.7 Kyocera KCS057QV1AJ-A26 5.0V

5.7 Kyocera KHS057QV1AA-G20 5.0V

3.8 Optrex F-51373GNC-MLW-AI 5.0V, Vee=25V, backlight requires 7V

320x240 QVGA, Mono Passive

5.7 Data International DG-32240 5.0V, CCFL backlight (1-tube), -20 to +70C

## **Bitsy Plus**

- 7 displays -

800x600 SVGA, Color Active TFT

8.4 Unipac UB084S01-2-DB 3.3V, LVDS, includes touch screen

640x480 VGA, Color Active TFT

10.4 NEC NL6448BC33-46 3.3 or 5V, CCFL backlight (2-tube), 0 to +65C, will work at

5V; includes reverse scan pin

6.5 **NEC NL6448BC20-08** 5.0V, CCFL backlight (2-tube), 0 to +60C

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

400x240, Color Active TFT

6.5 Sharp LQ065T9DR51 5.0V, requires +10V and -10V power supply

320x240 QVGA, Color Active TFT

5.5 NEC NL3224BC35-20 3.3V, CCFL backlight (2-tube), -10 to +70C, will work at 5V

3.8 Sharp LQ038Q5DR01 3.3V, CCFL backlight (1-tube), -30 to +85C, high in-rush

current; some ADS products may need to use ext. 3.3V or

special ADS rework

#### **BitsyX**

- 35 displays -

800x600 SVGA, Color Active TFT

12.1 Sharp LQ121S1DG11 3.3 or 5V, CCFL backlight (2-tube), 0 to +50C

10.4 Sharp LQ104S1DG21 3.3 or 5V, CCFL backlight (2-tube), -10 to +65C, 3.3V data

8.4 AUO Optronics B084SN03 3.3V, CCFL backlight (1-tube), 0 to +50C, LVDS without

touchscreen

# **BitsyX**

- 35 displays -

800x600 SVGA, Color Active TFT			
8.4	Unipac UB084S01-2-DB	3.3V, LVDS, includes touch screen	
640x480 VGA, Color Active TFT			
10.4	AZ Displays AGM6448F-NC	3.3V	
10.4	NEC NL6448AC33-29	3.3V, CCFL backlight (2-tube), 0 to +50C	
10.4	Sharp LQ104V1DG51	3.3 or 5V, CCFL backlight (2-tube), 0 to +50C, Vih>0.7Vcc. Digital noise can sometimes affect display running at 3.3V.	
8.4	Sharp LQ084V1DG21	3.3 or 5V, CCFL backlight (1-tube), 0 to +55C, Vih>0.7Vcc	
6.5	NEC NL6448BC20-08	5.0V, CCFL backlight (2-tube), 0 to +60C	
6.4	Optrex T-51382D064-FW		
6.4	Sharp LQ64D343	5.0V, CCFL backlight (2-tube), 0 to +55C	
4.0	Toshiba LTM04C380K	3.3V	
640x480 VGA, Color Passive			
7.2	Kyocera KHS072VG1MB-G93	5.0V	
6.3	Kyocera KCG062HV1AA-A21	3.3V, CCFL backlight (1-tube), 0 to +50C	
640x240 HVGA, Color Active TFT			
6.3	Kyocera THG062HV1AA-G00	3.3V, CCFL backlight (1-tube), -20 to +70C	
640x240 HVGA, Color Passive			
6.5	Kyocera KHB065HV1AC	3.3V	
400x240, Color Active TFT			
6.5	Sharp LQ065T9DR51	5.0V, requires +10V and -10V power supply	
320x240 QVGA, Color Active TFT			
5.8	Kyocera TCG057QV1AA-G00	3.3V, CCFL backlight (1-tube)	
5.7	Hitachi TX14D11VM1CBA	3.3V, CCFL backlight (1-tube), -10 to +65C	
5.7	Sharp LQ057Q3DC02	3.3V, CCFL backlight (1-tube), -10 to +70C, RL=GND, UD=3.3V	
5.5	NEC NL3224BC35-20	3.3V, CCFL backlight (2-tube), -10 to +70C, will work at 5V	
3.8	Sharp LQ038Q5DR01	3.3V, CCFL backlight (1-tube), -30 to +85C, high in-rush current; some ADS products may need to use ext. 3.3V or special ADS rework	
3.5	Sharp LQ035Q2DD54	5.0V, good for indoor & outdoor use; requires adapter (eg. avatar-eng.com SHP-LQ03-2-063-A-1)	
3.5	Sharp LQ035Q7DB02	, LED backlight, 0 to +50C, integrated touch panel; does not include control circuits (read: higher total cost)	
3.5	Sharp LQ035Q7DH01	5.0V, LED backlight, -10 to +70C, 3.3V data; touch panel; requires external controller (e.g. avatar-eng.com) and +15/-10V supplies	

#### **BitsyX**

- 35 displays -

320x240 QVGA, Color Dual Passive

5.7 Sharp LM057QC1T01 5.0V

320x240 QVGA, Color Passive

5.8 Kyocera KHS057QV1CJ-G00 5V, CCFL backlight (1-tube), 0 to +50C

5.7 Hitachi SX14Q001-ZZA 3.3V, CCFL backlight (1-tube), 0 to +60C, integrated touch

panel; Vcon=0.8-2.8V

5.7 Kyocera KCS057QV1AJ-G60 5.0V

5.7 Kyocera KHS057QV1AA-G20 5.0V

5.7 Kyocera KHS057QV1AJ-G91 5.0V

5.7 Sharp LM057QCTT03 5V, CCFL backlight (1-tube), 0 to +50C, Integrated four-wire

touch panel. Requires 5V data signals (0.8\*Vcc)

5.7 Wintek WM-X32243-1CFWD 3.3V

320x240 QVGA, Mono Passive

5.7 Data International DG-32240 5.0V, CCFL backlight (1-tube), -20 to +70C

320x96, Mono Passive

5.7 AZ Displays AGM3224D 5.0V, CCFL backlight (1-tube), -20 to +70C

#### **BitsyXb**

- 11 displays -

800x600 SVGA, Color Active TFT

12.1 NEC NL8060BC31-20 3.3 or 5V, CCFL backlight (2-tube), 0 to +55C, Supports

Fixed and Data Enable modes. Data Vih>0.7Vcc

8.4 AUO Optronics G084SN05 3.3V, CCFL backlight (2-tube), 0 to +50C

800x480 WVGA, Color Active TFT

7.0 AUO Optronics A070VW01 5V, CCFL backlight (2-tube), -30 to +85C, Used with TCON

Connector Board P/N# Promate JDBV070T1B0 (3.3v Power)

7.0 AUO Optronics C070VW01 5V, CCFL backlight (2-tube), -30 to +85C, Used with TCON

Connector Board P/N# Promate JDBV070T1B0 (3.3v Power)

7.0 Samsung LTC700WV-F01 3.3V, CCFL backlight (1-tube), -30 to +85C

640x480 VGA, Color Active TFT

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

480x640 VGA portrait, Color Active TFT

3.7 Sharp LS037V7DW01 3.3V, LED backlight, -10 to +60C, integrated touch panel;

can run in QVGA mode; LED backlight: 16mA@28V

400x240, Color Active TFT

6.5 LG Philips LB065WQ3 3.3V, CCFL backlight (1-tube), -30 to +85C

# **BitsyXb**

- 11 displays -

320x240 QVGA, Color Active TFT

5.8 Kyocera TCG057QV1AA-G00 3.3V, CCFL backlight (1-tube)

320x240 QVGA, Color Passive

5.7 Hantronix HDM3224-2 3.3V

320x240 QVGA, Mono Passive

7.9 Planar EL320.240.36-HB 5.0V

#### **GCX**

- 6 displays -

800x600 SVGA, Color Active TFT

12.1 LG Philips LB121S02 3.3V, CCFL backlight (2-tube), 0 to +50C

8.4 AUO Optronics G084SN05 3.3V, CCFL backlight (2-tube), 0 to +50C

800x480 WVGA, Color Active TFT

7.0 AUO Optronics A070VW01 5V, CCFL backlight (2-tube), -30 to +85C, Used with TCON

Connector Board P/N# Promate JDBV070T1B0 (3.3v Power)

640x480 VGA, Color Active TFT

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

640x480 VGA, Color Passive

7.7 Sharp LM8V30/302/31 3.3V

320x240 QVGA, Color Passive

5.7 Kyocera KHS057QV1AA-G20 5.0V

#### **Graphics Client Plus**

- 35 displays -

1024x768 XGA, Color Active TFT

15.1 LG Philips LM151X2 3.3V, obsolete as of 2002/2003

15.0 LG Philips LM150X08 3.3V, CCFL backlight (2-tube), 0 to +50C, 2A inrush current

15.0 LG Philips LM150X2 3.3V, CCFL backlight (2-tube), 0 to +50C

800x600 SVGA, Color Active TFT

12.1 LG Philips LB121S02 3.3V, CCFL backlight (2-tube), 0 to +50C

12.1 Sharp LQ121S1DG11 3.3 or 5V, CCFL backlight (2-tube), 0 to +50C

10.4 LG Philips LC104S2-AL 3.3V, LVDS LCD

10.4 LG Philips LP104S05 3.3V, LVDS

10.4 Unipac UB104S01-2 3.3V, 0 to +50C, LVDS, with touch screen

8.4 AUO Optronics G084SN05 3.3V, CCFL backlight (2-tube), 0 to +50C

# **Graphics Client Plus**

- 35 displays -			
800x600 SVGA, Color Dual Passive			
10.0	Hitachi SX25S003-ZZA	3.3V, CCFL backlight (2-tube), +5 to +40C, integrated touch panel; $Vcon=1.2-2.4V$	
640x480 VGA, Color Active TFT			
10.4	LG Philips LP104V2	3.3V	
10.4	NEC NL6448BC33-46	3.3 or 5V, CCFL backlight (2-tube), 0 to +65C, will work at 5V; includes reverse scan pin	
10.4	Sharp LQ104V1DG11	5.0V, discontinued March 2002, replaced by LQ104V1DG21	
10.4	Sharp LQ104V7DS01	5.0V, End-of-lifed in late 2003	
8.4	Sharp LQ084V1DG21	3.3 or 5V, CCFL backlight (1-tube), 0 to +55C, Vih>0.7Vcc	
8.3	NEC NL6448BC33-50	3.3 or 5V, CCFL backlight (2-tube), 0 to +65C, Transflective; will work at 5V; includes reverse scan pin	
6.4	LG Philips LB064V02	3.3V, CCFL backlight (1-tube), 0 to +50C	
6.4	Optrex T-51382D064-FW		
6.4	Prime View V16C6448AC	5V	
6.4	Sharp LQ64D343	5.0V, CCFL backlight (2-tube), 0 to +55C	
640x480 VGA, Color Dual Passive			
7.2	Kyocera KCS072VG1MB	5.0V	
640x480 VGA, Color Passive			
7.7	Sharp LM8V311	3.3V, internal temp compensation	
7.1	Hitachi SX19V007-ZZA	3.3V, Vcon=0-3.3V	
640x240 HVGA, Color Passive			
6.5	Hitachi SX16H005-AZA	3.3V, Requires Vcon ~ 2V	
320x240 QVGA, Color Active TFT			
5.7	Sharp LQ057Q3DC02	3.3V, CCFL backlight (1-tube), -10 to +70C, RL=GND, UD=3.3V	
5.5	NEC NL3224BC35-20	3.3V, CCFL backlight (2-tube), -10 to +70C, will work at 5V	
5.0	Sharp LQ050Q5DR01	3.3V, CCFL backlight, -30 to +85C	
3.8	Sharp LQ038Q5DR01	3.3V, CCFL backlight (1-tube), -30 to +85C, high in-rush current; some ADS products may need to use ext. 3.3V or special ADS rework	
320x240 QVGA, Color Dual Passive			
5.7	Sharp LM057QC1T01	5.0V	
320x240 QVGA, Color Passive			
5.7	Kyocera KCS057QV1AJ-A26	5.0V	
5.7	Kyocera KHS057QV1AJ-G91	5.0V	
3.8	Kyocera KHS038AA1AA-G21	3.3V, requires five Vee voltage steps, from 0 to +30V	

# **Graphics Client Plus**

- 35 displays -

320x240 QVGA, Mono Passive

3.9 Hitachi SP10Q003-T 3.3V, LED backlight, 0 to +50C, transflective; integrated

touch panel

320x96, Color Active TFT

4.9 Sharp LQ049B5DG01 5.0V, Panel requires +10V and -10V

320x96, Mono Passive

5.7 AZ Displays AGM3224D 5.0V, CCFL backlight (1-tube), -20 to +70C

#### **Graphics Master**

- 18 displays -

1024x768 XGA, Color Active TFT

15.0 LG Philips LP150X1 3.3V, LVDS

800x600 SVGA, Color Active TFT

12.1 Sharp LQ121S1DG11 3.3 or 5V, CCFL backlight (2-tube), 0 to +50C

10.4 Sharp LQ104S1DG21 3.3 or 5V, CCFL backlight (2-tube), -10 to +65C, 3.3V data

8.4 Unipac UB084S01-2-DB 3.3V, LVDS, includes touch screen

800x600 SVGA, Color Dual Passive

8.4 Kyocera KCB084SV1AA-A21 3.3V

640x480 VGA, Color Active TFT

10.4 LG Philips LP104V2 3.3V

10.4 Sharp LQ10D368 5.0V, CCFL backlight (1-tube), 0 to +50C, Older, single

CCFL tube version of LQ104V1DG51

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

640x480 VGA, Color Passive

7.7 Panasonic EDMGRB8KJF 3.3 or 5V, CCFL backlight (1-tube), 0 to +45C, integrated

touch panel (EDMGRB8KAF has no touch); Vcon=0.8 to 2.8V

7.2 Kyocera KHS072VG1MB-G93 5.0V

640x480 VGA, Mono Passive

6.4 Sharp LM64K837

640x240 HVGA, Color Active TFT

6.5 Hitachi TX16D11VC2CBA 3.3V

400x240, Color Active TFT

6.5 Sharp LQ065T9DR51 5.0V, requires +10V and -10V power supply

320x240 QVGA, Color Active TFT

5.7 Sharp LQ057Q3DC02 3.3V, CCFL backlight (1-tube), -10 to +70C, RL=GND,

UD=3.3V

# **Graphics Master**

- 18 displays -

320x240 QVGA, Color Active TFT

5.5 NEC NL3224BC35-20 3.3V, CCFL backlight (2-tube), -10 to +70C, will work at 5V

320x240 QVGA, Color Passive

5.8 Kyocera KHS057QV1AJ-L89 5.0V, CCFL backlight (1-tube), 0 to +50C

5.7 Optrex F-51167NCU-FW-AB 5.0V

320x240 QVGA, Mono Passive

5.9 Optrex DMF-50840 5.0V, CCFL backlight (1-tube), 0 to +50C, shading of some colors is uneven; may req hardware change to contrast circuit

#### **Portal**

- 1 displays -

640x480 VGA, Color Active TFT

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

## **Sphere**

- 3 displays -

800x480 WVGA, n/a other

Sharp LQ070Y5DR04 , tempr. range TBD

640x480 VGA, Color Active TFT

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

400x240, Color Active TFT

6.5 LG Philips LB065WQ3 3.3V, CCFL backlight (1-tube), -30 to +85C

# Sphere II

- 2 displays -

800x480 WVGA, Color Active TFT

7.0 AUO Optronics A070VW01 5V, CCFL backlight (2-tube), -30 to +85C, Used with TCON Connector Board P/N# Promate JDBV070T1B0 (3.3v Power)

640x480 VGA, Color Active TFT

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

# VGX [SM501]

- 13 displays -

1024x768 XGA, Color Active TFT

15.0 LG Philips LM150X08 3.3V, CCFL backlight (2-tube), 0 to +50C, 2A inrush current

# VGX [SM501]

- 13 displays -

1024x768 XGA, Color Active TFT

8.4 Mitsubishi AA084X02 3.3V, CCFL backlight (2-tube), 0 to +50C

800x600 SVGA, Color Active TFT

12.1 LG Philips LB121S02 3.3V, CCFL backlight (2-tube), 0 to +50C

12.1 NEC NL8060BC31-20 3.3 or 5V, CCFL backlight (2-tube), 0 to +55C, Supports

Fixed and Data Enable modes. Data Vih>0.7Vcc

10.4 Sharp LQ104S1DG21 3.3 or 5V, CCFL backlight (2-tube), -10 to +65C, 3.3V data

800x480 WVGA, Color Active TFT

7.0 Hitachi TX18D16VM1CAA 3.3V, CCFL backlight (1-tube), 0 to +70C

640x480 VGA, Color Active TFT

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C

640x240 HVGA, Color Active TFT

6.2 Hitachi TX16D11VM2CAA 3.3V, CCFL backlight (1-tube), 0 to +50C, integrated touch

panel

400x240, Color Active TFT

6.5 LG Philips LB065WQ3 3.3V, CCFL backlight (1-tube), -30 to +85C

6.5 Sharp LQ065T9DR52U 5V, -30 to +85C, requires external +/-10VDC

320x240 QVGA, Color Active TFT

5.8 Kyocera TCG057QV1AA-G00 3.3V, CCFL backlight (1-tube)

5.7 Sharp LQ057Q3DC02 3.3V, CCFL backlight (1-tube), -10 to +70C, RL=GND,

UD=3.3V

5.0 Sharp LQ050Q5DR01 3.3V, CCFL backlight, -30 to +85C

#### **Video ClientX**

- 6 displays -

1024x768 XGA, Color Active TFT

15.0 LG Philips LM150X08 3.3V, CCFL backlight (2-tube), 0 to +50C, 2A inrush current

10.4 NEC NL10276BC20-04 3.3V, CCFL backlight (2-tube), 0 to +60C, LVDS; can run in

18 or 24 bpp modes

800x600 SVGA, Color Active TFT

10.4 Optrex T-51944D104J-FW-A-AA 3.3V, CCFL backlight (2-tube), -20 to +70C, LVDS

8.4 AUO Optronics G084SN05 3.3V, CCFL backlight (2-tube), 0 to +50C

640x480 VGA, Color Active TFT

6.5 Optrex T-51750GD065J-FW-AB 3.3 or 5V, CCFL backlight (2-tube), 0 to +60C

6.4 Sharp LQ64D343 5.0V, CCFL backlight (2-tube), 0 to +55C