

Appendix

The background of the page is a photograph of several cyclists riding on a road. They are silhouetted against a bright, hazy sky where the sun is low on the horizon, creating a lens flare effect. The road stretches into the distance, and the overall tone is warm and atmospheric.

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LCD Services

Introduction

LCD screens are very popular with Advantech's CPU cards, biscuit PCs and POS series products, such as the PCM-9579/9577/9375/3375/4386, POS-761/564, as well as products that use the C&T Trident SMI VIA VGA chipsets. Achieving the correct lighting on LCDs is difficult without technical expertise. Advantech provides LCD lighting and integration services to assist our customers in setting up their systems. Advantech's LCD lighting guide explains how to make connections between LCD interfaces and LCD panels, as well as how to control contrast, brightness, VEE source, LCD inverter, and all other factors that affect the successful installation of LCD panels.

The following information details our LCD lighting services:

- This policy is only valid for Advantech products that include LCD support
- The customer should send the following LCD components for service:
 - DC-AC inverter and cable (i.e. connector with/without wires) and data sheet
 - LCD flat panel and cable (connector with/without wires) and complete data sheet
- Advantech will normally charge the customer a deposit. The deposit will be refunded when servicing exceeds a minimum volume
- The customer must sign the agreement and fax it to us prior to sending the LCD package. Advantech reserves the right to refuse service if the customer cannot provide the required documents and auxiliary parts
- Advantech will supply a BIOS file and connection table to the customer upon completing the service
- A minimum of seven working days is required for completion of service, starting from receipt of the LCD package by Advantech

The table shows the TFT display support list. Please contact our customer service department for more detailed information and service files.

See our web site at:

<http://www.advantech.com/support>

Model Number:

AMD Geode LX800
(PCM-9375/SOM-4455, SOM-2355/PCM-4153, PCM-3353)

Intel-915GM
(SOM-5780/PCM-9584)

Intel-945GM
(SOM-5782/SOM-4780)

Intel 845GV/855GME/852GM
(PCM-9580/9581, SOM-5580/4481/4486, AIMB-340)

VIA VT8606 "Twister"
(PCM-9575/9577/9579/9371/9372/9373/3370, SOM-4472/4475, POS-761)

VIA CN800
(SOM-5770 /SOM-4770)

VIA CX700
(SOM-4477)

VIA Mark
(PCM-3375)

STPC DX-66/ATLAS
(PCM-3346/3341)

VGA Chip function:

AMD Geode LX800-24-bit TTL / 18-bit LVDS

Intel-915GM-36-bit LVDS(with chrontel/ CH7008 up to 48-bit LVDS)

Intel-945GM-up to 36-bit LVDS(with chrontel/ CH7008 up to 48-bit LVDS)

Intel 845GV/855GME- up to 36-bit LVDS (with chrontel/ CH7017 up to 48-bit LVDS)

VIA VT8606 "Twister"-Color DSTN/Color STN/up to 36-bit TFT

VIA CLE266-up to 24-bit TFT

VIA CN800 -up to 48bits LVDS

VIA CX700 -up to 48bits LVDS

VIA Mark- up to 36 bits LVDS

STPC DX-60-up to 36-bit TFT

STPC ATLAS-18-bit TFT

LCD Panel			
	Type	Size	Resolution
COLOR STN			
APEX			
CG320240	Standard	5.7	320 x 240
HITACHI			
SX14Q001-2	Standard	5.5	320 x 240
SANYO			
LCM-5381-24NTK	Standard	3.9	320 x 240
LM-EA53-24NTK	Standard	8.03	640 x 480
DSTN			
CHUNGHWA			
CLX-8172S-C3X	Standard	10.7	640 x 480
CITIZEN			
k6483-FF/k6488-FF	Standard	7.7	640 x 480
K6484L-FF	Standard	8.6	640 x 480
K6488L-FF	Standard		
DENSITRON			
LMG8336E-DF2	Standard	11.6	640 x 480
LMG8343E-DF2	Standard		
HITACHI			
SX19V007	Standard	7.5	640 x 480
LMG8328E-DF2	Standard		
LM9211XUCC	Standard	10	640 x 480
SX25S001	Standard		800 x 600
SX31S003	Standard	12.1	800 x 600
LMG8334E-DF2	Standard		
LMG9460XUCC	Standard	10.4	640 x 480
KYOCERA			
KCS3224ASTT-X6	Standard	5.7	320 x 240
KCB104VG2BA-A45	Standard	10.4	640 x 480
KCB6448BSTT-X5	Standard	10.4	640 x 480
KCS077VG2EA-A03	Standard	7.7	640 x 480
KCS6448BSTT-X1	Standard	10.5	640 x 480
OPTREX			
DMF-50414NCU-FW	Standard	9.6	640 x 480
DMF-50260NFU-FW-8	Standard	9.6	640 x 480
SAMSUNG			
UG-64I-011A	Standard		
UG-64I-011A	Standard		

LCD Panel			
	Type	Size	Resolution
DSTN			
SANYO			
LCM5328-22NK	Standard	8	640 x 480
LCM5331-22NK	Standard	9.7	640 x 480
LCM5333	Standard		
LCM5334/5343	Standard		
LCM5365-22NK	Standard	11.6	800 x 600
LM-CH53-22NK	Standard	10.4	640 x 480
KCB104VG2BA-A45	Standard	10.4	640 x 480
SHARP			
LM10V33	Standard	10.4	640 x 480
LM14X82		13.8	1024 x 768
LM64C08P/C142	Standard	9.5	640 x 480
LM64C152	Standard	9.5	640 x 480
LM64C21P/C35p	Standard	10.5	640 x 480
LM64C362	Standard	10	640 x 480
LM64C381	Standard	10.7	640 x 480
LM64C38P	Standard		640 x 480
LM80C032	Standard	10.4	800 x 600
LM8V31	Standard	8	640 x 480
EL			
PLANAR			
320.240.36	Standard	5.7	320 x 240
EL640.400-CB1		640 x 400	9.1
EL640.480-A4	Standard	10.4	640 x 480
EL640.480-AA1	Standard	10.4	640 x 480
EL640.480-AD4	Standard	10.4	640 x 480
EL640.480-AM1	ELDD	10.4	640 x 480
640.480-ASB	Standard		640 x 480
SHARP			
LJ64H052	ELDD	10.4	640 x 480
LJ64ZU50/52	Standard	10.4	640 x 480
LJ64ZU51	Standard	9.4	640 x 480
LJ32H028	32KH028.dat	4.7	320 x 240
MONO STN			
BATRON			
EG32F10BCW	Standard	5.7	320 x 240
CITIZEN			
G6485H-FF	G6485.dat	5	640 x 480
FPD			
LDH096T-11	Standard	9.5	640 x 480

LCD Services

LCD Panel			
	Type	Size	Resolution
MONO STN			
HITACHI			
SX14Q001-2	Standard	Mono	STN
SX21V001	Standard	Color	DSTN
LMG5278xufc/7550xuf	Standard		
LMG6910PGR	Standard	7.6	320 x 240
LMG5391	Standard	9.7	640 x 480
SP14Q002	Standard		
HOSIDEN			
HLM8619	Standard		
HLM6667	Standard	9.5	640 x 480
NAN-YA	Standard		
LLHSHT024G	Standard		
LMBGAT032CCK	Standard	5.7	320 x 240
LTBHB203K	Standard	7.6	320 x 240
OPTREX			
DMF-50081NF-FW	Standard	5.1	320 x 240
DMF-5075SNFU-FW	Standard		640 x 480
SAMSUNG			
UG-64I-0003 BP	Standard		
SANYO			
LM5541-23NK	Standard		
LM5571-32NK	Standard		
SEIKO			
G321E	Standard	4.7	320 x 240
SHARP			
LM320081	Standard		
LM32008F	Standard	5	320 x 240
LM32P07	Standard	6	320 x 240
LM64183P	Standard	9.7	640 x 480
LM64p11	Standard		
LM64P81/83/86/839/101	Standard	9.7	640 x 480
LM64P89L	Standard	11	640 x 480
SOLOMON			
LM6430FBF	SOLOMAN	4.5	320 x 200
TFT			
FPD			
IDE052T-12	16BTFT		
IDH102T-10 (24-bit)	LDH102T		
IDH102T-20 (12-bit)	16BTFT		
IDH102T-20 (24-bit)	16BTFT	10.4	640 x 480

LCD Panel			
	Type	Size	Resolution
TFT (cont...)			
ACER			
L150X2M	Standard	15	1024 x 768
AU			
M15XN05	36BTFT	15	1024 x 768
L170E3	LVDS	17	1280 x 1024
A056DN01V2	Standard	5.6	920 x 234
G0121SN01	LVDS	11	800 x 600
G065VN01	Standard	6.5	640 x 480
G084SN03V0	Standard	8.4	800 x 600
G084SN05V0	LVDS	8	800 x 600
G084SN05V1	LVDS	9.8	800 x 600
G104SN03	LVDS	5.6	800 x 600
G104SN03-2	LVDS	7.4	800 x 600
G104SN03V0	Standard	10.4	800 x 600
G104SN05	LVDS	27.2	800 x 600
G121SN01V0	Standard	12.1	800 x 600
G150XG01	LVDS	15	1024 x 768
G150XG01	LVDS	12	1024 x 768
M170EG01V8	Standard	17	1280 x 1024
BATRON			
EDTCF02QAF	Standard	15	
CHI MEI			
N104S1	Standard	10.4	800 x 600
M141X101	Standard	14.1	1024 x 768
M150x1	Standard	15	1024 x 768
M150x2	Standard	15	1024 x 768
M150x3	Standard	15	1024 x 768
CHI MEI			
N141P1-01	LVDS	14.1	1400 x 1050
M170E1	LVDS	17	1024 x 768
CHUNGHWA			
C150XA-I32INV5	18BTFT	15	1024 x 768
CLAA150XA03	Standard	15	1024 x 768
CLAA150XE01	48BTFT	15	1024 x 768
Data Display			
HLD1027-010100	Standard	10.4	640 x 480
HITACHI			
TX26D68VC1CAA-1	Standard	12.1	800 x 600
TX31D27VC1CAB-1	Standard	12.1	800 x 600
TX24D55VC1CAA	16BTFT	10.4	640 x 480
LQ104V1DG11	Standard	10.4	800 x 600
HOSIDEN			
HLD1209	18BTFT	12.1	800 x 600
HLD0912	16BTFT		
HLD1036	18BTFT		
HYUNDAI			
HT12S11	Standard	12.1	800 x 600
HT12S13-100	Standard	12	800 x 600
IBM			
ITVS50D	18BTFT		
85G0500 (F8515)	Standard	10.4	640 x 480
ITVS50N	18BTFT		
IMES			
M121-53H	Standard	12.1	800 x 600
M121-S0H	Standard	12.1	800 x 600
LG			
LC95VA01A	16BTFT		
LM151X2	Standard	15	1024 x 768
LP064V1	Standard	6.4	640 x 480
LP121S1	Standard	12.1	800 x 600

LCD Panel	Type	Size	Resolution
TFT (cont...)			
LP121S2	Standard	12.1	800 x 600
LP121SB	Standard	12.1	800 x 600
LCA4SE01A (18-bit)	800 x 600	10.4	800 x 600
L150x06	LVDS	15	1024 x 768
MITSUBISHI			
AA084VC01	18BTFT	8.4	640 x 480
AA104VB05	18BTFT	10.4	640 x 480
AA12SB6C-ADFD	18BTFT	12.1	800 x 600
AA121SK26	18BTFT	12.1	800 x 600
AA084XA02	Standard	8.4	640 x 480
AA104SG01	Standard	10.4	640 x 480
AA121SL03	Standard	12.1	800 x 600
AA121XH01	Standard	12.1	800 x 600
NEC			
NL6448AC20-05	16BTFT	6.4	640 x 480
NL6448AC20-10	18BTFT	6.4	640 x 480
NL6448AC32-01 (16-bit)	16BTFT	9.4	
NL6448AC32-01 (18-bit)	18BTFT	10.2	
NL6448AC33-10	16BTFT	10.4	640 x 480
NL6448AC33-13		10.4	640 x 480
NL6448AC33-18	18BTFT	10.4	640 x 480
NL8060AC26-11	18BTFT	10.4	640 x 480
NL8060AC31-12	18BTFT	12.1	800 x 600
NL8060BC31-01/02	18BTFT	12.1	800 x 600
NL8060BC31-09	18BTFT	12.1	800 x 600
NL6448AC33-18	Standard	10.4	640 x 480
NL8060AC26-11	Standard	10.4	800 x 600
NL8060AC31-12	Standard	12.1	800 x 600
NL8060BC31-01/02	Standard	12.1	800 x 600
NL8060B31-09	Standard	12.1	800 x 600
PHILIPS			
LTE052T-061	Standard	5	320 x 240
Promate			
PMB104S01HB	LVDS	10.4	800 x 600
PVI			
V16C6448AE	18BTFT	6.4	640 x 480
P64CV1	Standard	6.4	640 x 480
P64CV2	Standard	6.4	640 x 480
PD035VX2	Standard	3.5	640 x 480
PD064VT4W1	Standard	6.4	640 x 480
SAMSUNG			
LTM150XS-T01	36BTFT	15	1024 x 768
LT104V3-101/102	18BTFT	10.4	800 x 600
LT104V4-101	18BTFT	10.4	800 x 600
LT121S1-103	18BTFT	12.1	800 x 600
LT121S1-105	Standard	12.1	800 x 600
LT121S1-153	Standard	12.1	800 x 600
LT121SS-105	Standard	12.1	800 x 600
LT133XM-101	Standard	13	1024 x 768
LT140X1-151	Standard	14	1024 x 768
LT150X1-151	Standard	15	1024 x 768
LT150XS-T01	Standard	15	1024 x 768
LTM150XH	18BTFT	15	1024 x 768

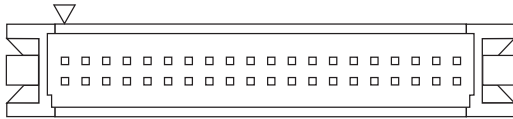
LCD Panel	Type	Size	Resolution
TFT (cont...)			
SANYO			
TM121SV-02L01	Standard	12.1	800 x 600
SHARP			
LQ10D131	16BTFT	10.4	640 x 480
LQ10D321(15-bit)	16BTFT	10.4	640 x 480
LQ10D321(18-bit)	18BTFT	1.04	640 x 480
LQ10D341(18-bit)	18BTFT	10.4	640 x 480
LQ10D344(18-bit)	18BTFT	10.4	640 x 480
LQ10D361(18-bit)	18BTFT	10.4	640 x 480
LQ10D42	18BTFT	10.4	640 x 480
LQ10DS01/05(18-bit)	18BTFT	10.4	800 x 600
LQ10DS21(18-bit)	18BTFT	10.4	800 x 600
LQ12S31	18BTFT	12.1	800 x 600
LQ12S41	18BTFT	12.1	800 x 600
LQ14X03E		13.8	1024 x 768
LQ64D141	18BTFT	6.4	640 x 480
LQ64D321(18-bit)	18BTFT	6.4	640 x 480
LQ64D341(18-bit)	18BTFT	6.4	640 x 480
LQ94D021	16BTFT		
LQ9D011	16BTFT	9.4	640 x 480
LQ9P341(18-bit)	18BTFT	8.4	
TOSHIBA			
ITM09C015A/016	16BTFT	9.4	640 x 480
ITM10C042(18-bit)	18BTFT	10.4	640 x 480
LTM08C341	Standard	8.4	800 x 600
LTM10C273	Standard	10.4	800 x 600
LTM15C151A	Standard	15	1024 x 768
ITM10C2091(18-bit)	18BTFT	10.4	640 x 480
LTM10C306L	Standard	10.4	1024 x 768
ITM11C016/062	18BTFT		800 x 600
ITM12C275A	800 x 600		800 x 600
TORISAN			
	18BIT	12.1	800 x 600

- (1). Trident Cyber9525 DVD and Trident CyberBlade i7 does not support EL and MONO flat panel.
- (2). GXM only supports TFT flat panel.

LCD Connectors

LCD 1.25 mm LCD Connector
Standard (VIA)

a) DF13 (40-Pin)

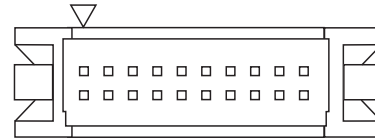


Pin	Signal	Pin	Signal
1	VDDSAFE5	2	VDDSAFE5
3	GND	4	GND
5	VDDSAFE3	6	VDDSAFE3
7	Vcon	8	GND
9	P0	10	P1
11	PD0 (B0)	12	PD1 (B1)
13	PD2 (B2)	14	PD3 (B3)
15	PD4 (B4)	16	PD5 (B5)
17	P8	18	P9
19	PD6 (G0)	20	PD7 (G1)
21	PD8 (G2)	22	PD9 (G3)
23	PD10 (G4)	24	PD11 (G5)
25	P16	26	P17
27	PD12 (R0)	28	PD13 (R1)
29	PD14 (R2)	30	PD15 (R3)
31	PD16 (R4)	32	PD17 (R5)
33	GND	34	GND
35	SHIFT CLOCK	36	FLM
37	M	38	LP
39	DOTCLK	40	ENAVEE

Note: The model number of the DF13 (40-Pin) socket is DF13A 40DP-1.25V (Hirose Electric Co., Ltd.)

The following items follow this standard: PCM-3375, PCM-9371, PCM-9373, PCM-9577, PCM-9579

b) DF13 (20-Pin)



Pin	Signal	Pin	Signal
1	GND	2	GND
3	PD24	4	PD25
5	PD26	6	PD27
7	PD28	8	PD29
9	PD30	10	PD31
11	PD32	12	PD33
13	PD34	14	PD35
15	GND	16	GND
17	N/C	18	N/C
19	N/C	20	N/C

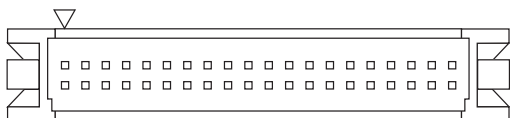
Note: The model number of the DF13 (20-Pin) socket is DF13A-20DP-1.25V (Hirose Electric Co., Ltd.)

The following items follow this standard: PCM-9371, PCM-9373, PCM-9577, PCM-9579

LCD Connectors

LCD 1.25 mm LCD Connector
Standard LVDS

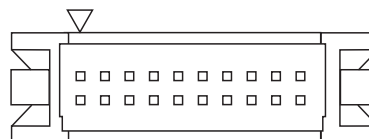
a) DF13 (40-Pin)



Pin	Signal	Pin	Signal
1	LCD VDD	2	LCD VDD
3	GND	4	GND
5	LCD VDD	6	LCD VDD
7	OD0-	8	ED0-
9	OD0+	10	ED0+
11	GND	12	GND
13	OD1-	14	ED1-
15	OD1+	16	ED1+
17	GND	18	GND
19	OD2-	20	ED2-
21	OD2+	22	ED2+
23	GND	24	GND
25	OCK-	26	ECK-
27	OCK+	28	ECK+
29	GND	30	GND
31	DDC_CLK	32	DDC_DAT
33	GND	34	GND
35	OD3-	36	ED3-
37	OD3+	38	ED3+
39	NC	40	VCON

Note: The model number of the DF13 (40-Pin) socket is DF13A-40DP-1.25V (Hirose Electric Co., Ltd.)
Example: PCM-958X, PCM-938X

b) DF13 (20-Pin)



Pin	Signal	Pin	Signal
1	GND	2	GND
3	OTX0+	4	ETX0+
5	OTX0-	6	ETX0-
7	OTX1+	8	ETX1+
9	OTX1-	10	ETX1-
11	OTX2+	12	ETX2+
13	OTX2-	14	ETX2-
15	OCK+	16	ECK+
17	OCK-	18	ECK-
19	VDD (3.3 V)	20	VDD (3.3 V)

Note: The model number of the DF13 (20-Pin) socket is DF13A-20DP-1.25V (Hirose Electric Co., Ltd.)

The following items follow this standard: PCM-9371, PCM-9373

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