

POS-760F Socket 370 SBC For POS

Application

Startup Manual

Packing List

Before you begin installing your card, please make sure that the following materials have been shipped:

- 1 POS-760F all-in-one single board computer
- 2 serial port cables (part no. 1701100300)
- 1 floppy cable (part no. 1701340602)
- 1 UDMA/66 IDE flat cable (part no. 1701400453)
- 1 startup manual
- CD-ROM or disks for utility, drivers, and manual (in PDF format)

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Note 1: For detailed contents of the POS-760F, please refer to the enclosed CD-ROM or disk (in PDF format).

Note 2: Acrobat Reader is acquired to view any PDF file. Acrobat Reader can be downloaded at: www.adobe.com/Prodindex/acrobat/readstep.html (Acrobat is a trademark of Adobe.)

Specifications

Standard SBC Functions

- **CPU:** Socket 370 for Intel® Celeron™/Pentium III processor
- **BIOS:** Award 256 KB Flash memory
- **Chipset:** VIA 82C693/82C686
- **System memory:** Two DIMM sockets accept 32 ~ 512 MB SDRAM
- **Enhanced IDE interface:** Supports up to four EIDE devices. BIOS auto-detect, PIO Mode 3 or Mode 4, UDMA/33 transfer, UDMA/66 transfer

For more information on this and other Advantech products, please visit our website at:

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

For technical support and service, please visit our support website at:

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

This manual is for the POS-760F series Rev. A1.

Part No. 2007076001
Printed in Taiwan

1st Edition
Jan. 2000

- **FDD interface:** Supports up to two FDDs
- **Serial ports:** Four serial RS-232 ports, COM1, 3, 4: RS-232, COM2: RS-232/422/485
- **Parallel port:** Two parallel ports, supports SPP/EPP/ECP mode
- **Infrared port:** Shared with COM2. Transfer rates up to 4 Mbps
- **Keyboard/mouse connector:** Supports standard PC/AT keyboard and a PS/2 mouse
- **Power management:** Supports power saving modes including Normal/Standby/Suspend modes. APM 1.1 compliant
- **Watchdog timer:** 62 level timer intervals
- **USB:** Two universal serial bus ports

Solid State Disk

- Supports one 50-pin socket for CompactFlash™ card and one socket for one DiskOnChip®

VGA/LCD Interface

- **Chipset:** C&T69000 2 MB SDRAM on chip
- **Interface:** PCI interface, 64-bit engine
- **Display mode:** Flat panel displays up to 800 x 600 @ 24 bpp, 1024 x 768 @ 16 bpp, CRT monitors up to 800 x 600 @ 24 bpp, 1024 x 768 @ 16 bpp

Ethernet Interface

- **Chipset:** RTL 8139B
- **Ethernet interface:** PCI 10/100 Mbps Ethernet. IEEE 802.3 U protocol compatible
- **Connection:** On-board RJ-45 connector
- **I/O address switchless setting**
- **Built-in boot ROM**

Audio Function (optional)

- **Chipset:** VIA 82C686
- **Audio controller:** AC97 version 2.0 compliant interface
- **Audio interface:** Microphone in, Line in, CD audio in, Line out, Speaker L and Speaker R

Mechanical and Environmental

- **Dimensions (L x W):** 203 x 146 mm (8" x 5.75")
- **Power supply voltage:** +5 V ±5 %

- **Power requirements:** 5.1 A @ +5 V, 0.15 A @ +/-12 V (typical, 128 MB DRAM, Celeron™ 500 CPU)
- **Operating temperature:** 0 ~ 60° C
- **Weight:** 0.7 kg (weight of total package)

Jumpers and Connectors

The board has a number of jumpers that allow you to configure your system to suit your application.

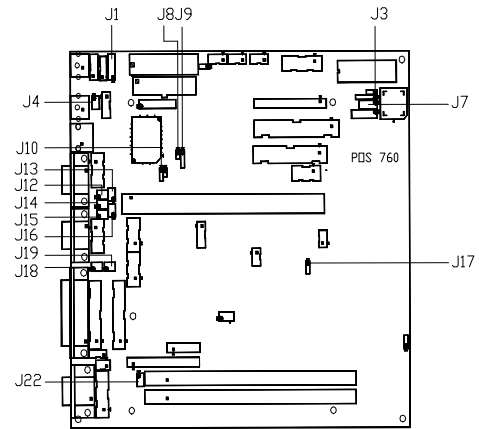
The table below lists the function of each of the jumpers and connectors.

Label	Function
J1	Reserved for Ext. K/B and PS2 mouse
J3	Watchdog function
J4	keyboard/mouse select
J7	DOC® 2000 address select
J8	Reserved for audio select (On-board AC97)
J9	Reserved for audio select (On-board AC97)
J10	IRQ 12 release
J12	COM1, COM2 RI/power selection
J13	COM2 RS-232/422/485 setting
J14	COM1, COM2 RI/power selection
J15	COM2 RS-232/422/485 setting
J16	COM2 RS-232/422/485 setting
J17	CMOS (RTC) clear
J18	COM3, COM4 RI/power selection
J19	COM3, COM4 RI/power selection
J22	LCD power setting

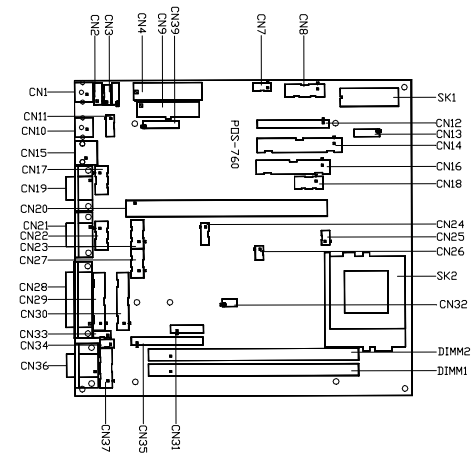
Label	Function
CN1	PS/2 keyboard connector
CN2	Internal KB connector
CN3	Internal KB/mouse connector
CN4	Main (AT) power connector
CN7	Audio connector (Audio only)
CN8	CD audio-in connector (Audio only)
CN9	ATX power connector
CN10	PS/2 mouse/KB connector
CN11	IR connector
CN12	Primary 2.5" IDE connector
CN13	Digital I/O
CN14	Secondary IDE (for 3.5") connector
CN15	Ethernet connector
CN16	FDD connector
CN17	Internal COM2 connector
CN18	USB connector
CN19	COM2 connector
CN20	PISA (PCI/ISA) connector
CN21	COM1 connector
CN22	Internal COM1 connector
CN23	Internal COM4 connector
CN24	FIR
CN25	Fan power connector
CN26	System fan connector

CN27	Internal COM3 connector
CN28	LPT1 connector
CN29	Internal LPT1
CN30	Internal LPT2 connector
CN31	Flat panel display connector (extension)
CN32	Contrast adjust connector
CN33	Backlight control
CN34	Brightness Adj. connector
CN35	Flat panel display connector
CN36	CRT display connector
CN37	Internal CRT display connector
CN38	Mini PCI connector
CN39	Front Panel connector
SK1	Socket for DOC 2000
SK2	Socket for processor
SK3	Socket for CompactFlash™

Locating Jumpers



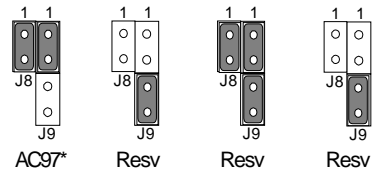
POS-760 Locating Jumpers



POS-760 Locating connectors (component side)

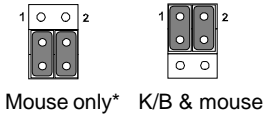
J3: Watchdog function

Closed pins	Result
1-2	Reset*
2-3	IRQ11



J4: Keyboard/mouse select

Closed pins	Result
1-3, 2-4	Keyboard and mouse
3-5, 4-6	mouse only*



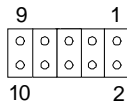
J10: IRQ 12 release

Closed pins	Result
1-2	MS_DATA*
2-3	IRQ12



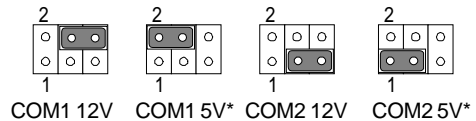
J7: DOC® 2000 and DIO address select

DOC® 2000 address select			
DOC 2000	5-6	3-4	1-2
C800	Short	Short	Short
CA00	Short	Short	Open
CC00	Short	Open	Short
CE00*	Short	Open	Open
D000	Open	Short	Short
D200	Open	Short	Open
D400	Open	Open	Short
D600	Open	Open	Open
DIO		9-10	7-8
200*		Open	Open
210		Open	Short
220		Short	Open
230		Short	Short



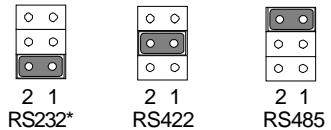
J12: COM1, COM2 RI/power select

Closed pins	Result
4-6	COM1 (+12 V)
2-4	COM1 (+5 V)*
3-5	COM2 (+12 V)
1-3	COM2 (+5 V)*



J13: COM2 RS232, RS422, RS485 select

Closed pins	Result
1-2	RS232*
3-4	RS422
5-6	RS485

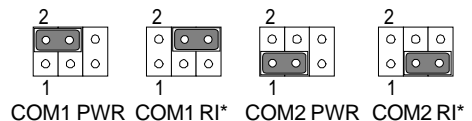


J8 & J9: Audio function select

J8 & J9: Audio function select (Select On-board 97)		
	J8	J9
AC97*	1-2	1-2
Reserved	Open	3-4
Reserved	1-2	1-2 & 3-4
Reserved	Open	3-4

J14: COM1, COM2 RI/power select

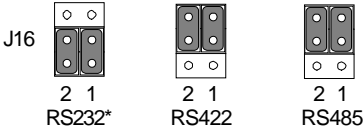
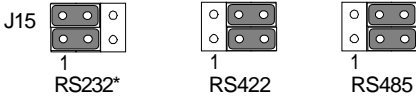
Closed pins	Result
2-4	COM1 Power
4-6	COM1 RI*
1-3	COM2 Power
3-5	COM2 RI*



* default setting

J15 & J16: COM2 RS-232, RS-422, RS-485 select

J15		J16	
Closed Pins	Closed Pins	Result	Result
1-3, 2-4	1-3, 2-4	RS-232*	
3-5, 4-6	3-5, 4-6	RS-422	
3-5, 4-6	3-5, 4-6	RS-485	



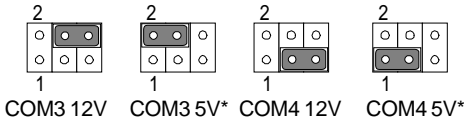
J17: Clear RTC

Closed pins	Result
1-2	RTC*
2-3	Clear RTC



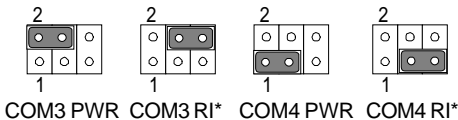
J18: COM3, COM4 R1/power select

Closed pins	Result
4-6	COM3 (+12 V)
2-4	COM3 (+5 V)*
3-5	COM4 (+12 V)
1-3	COM4 (+5 V)*



J19: COM3, COM4 R1/power select

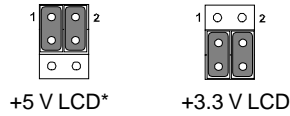
Closed pins	Result
2-4	COM3 Power
4-6	COM3 RI*
1-3	COM4 Power
3-5	COM4 RI*



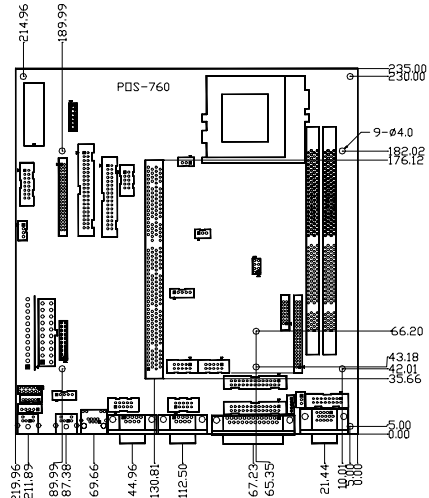
* default setting

J22: LCD power

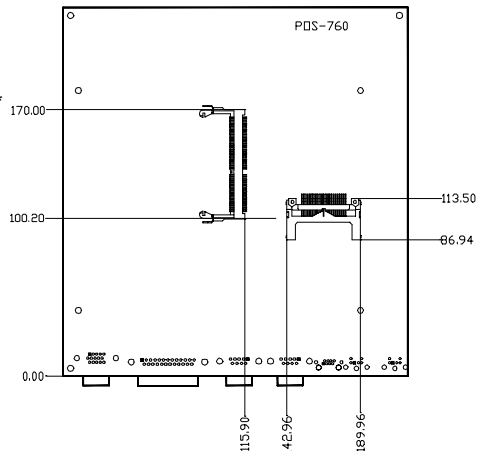
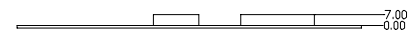
Closed pins	Result
1-3, 2-4	+5 V LCD panel*
3-5, 4-6	+3.3 V LCD panel



POS-760F Mechanical Drawings



Board Dimensions (component side)



Board Dimensions (solder side)