3510T/3510KP & 3512T/3512KP

Flat-Panel Industrial PCs

P/N 350003A

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Printed in the United States of America

- Keypads (3510KP/3512KP)
  - 32 relegendable function keys (64 with the F/A function)
  - Numeric, PC control, and Alpha keypads
- Status LEDs
  - Power
  - Disk
  - Com
  - Input
- 3.5” external floppy option, side access
- MS-DOS® (if Windows® 95 or Windows NT® is ordered, MS-DOS is not included)
- 3510/3512 front panel sealed to meet NEMA 4/4X/12 and IP65 specifications when panel mounted
- 3510KP/3512KP (KPTs) front panel sealed to meet NEMA 4/4X/12 specifications when panel mounted
- UL listed for use in Class I, Division 2 hazardous locations (not available on units with fieldbus or control option boards installed)

Optional Features (All Units)

Following are optional features available for the units:

- Processor speed options
- Touchscreen-resistive technology with less than 1.5% linearity error
- 9460-DRVNT, Windows NT touchscreen driver (included if Windows NT is ordered preinstalled)
- 9460-DRVOS/2 touchscreen driver
- Larger capacity IDE hard drives and solid state drives
- Preinstalled Windows 95 or Windows NT
- 9000-EXF, hot installable external floppy drive
- 9000-FKA, NEMA 4 front access panel for floppy port and keyboard port
- 9000-RF1 19-inch Rack Mount Adapter Plate (9460, 9462)
- 9000-FFK Front Floppy Kit
- 9000-RFC 19-inch Floppy Door Plate

7. Turn on power to the system. The system will boot up to the operating system installed.

8. Install the application software via a floppy drive.

If a touchscreen has been factory installed along with MS-DOS, the mouse port is unavailable. The unit will arrive with a sticker placed over the port. If you would like to reconfigure the touchscreen to use the COM2 port, follow the instructions in the *Using a Touchscreen* section in this chapter.

Installing Internal Hardware Options

Caution

Turn off the unit before installing internal hardware.

Warning

The installation of expansion boards may void safety and/or EMC compliance.

Remove the lid to install internal hardware options.

DRAM and Additional DRAM Single In-line Memory Modules (SIMMs)

You can order your system CPU factory-configured for many configurations of DRAM. You can reconfigure the DRAM capacity by changing the DRAM SIMMs on your board. For more information, refer to the CPU manual.

PC/AT and PCI Boards

1. Check that the memory and I/O configuration of the board you want to install does not conflict with the CPU and I/O memory maps in your CPU board manual.

2. Remove the lid.

3. Remove the ORB screw in the desired track.

4. Slide the PC/AT expansion board into a corresponding rail.

5. Push the board into the backplane connectors.

Note

Do not force the boards or apply uneven pressure.

6. Secure the board by installing the screw through the hole in the board's metal ORB and into the top of the track.
7. Replace the lid.

Installing External Hardware Options

This section explains how to install the external hardware options available with the system.

> **Note**
>
> When using the external floppy drive, do NOT attach the drive with a diskette installed. You may corrupt the disk.

External Floppy

The external floppy (9000-EXF) can be mounted on the back of the unit. There are four screw holes on the back of the unit for the floppy mounting. A fifth screw hole is on the back for the cable clamp screw. See the figures of the back panel and the bottom panel (Figure 3-4 and Figure 3-5).

Front mounting options are also available.

> **Note**
>
> Make sure the floppy drive cable will reach the external floppy connector on the system before making the cutout.

If you wish to relocate the floppy drive to the front of the computer module, you must install the 9000-FFK Front Floppy Kit, which includes a front access keyboard port. The floppy drive access door is provided for installations using the 9000-RFC Rack Filler Plate with Cutout, or panel mount installations that provide a cutout for the front mounted floppy drive.

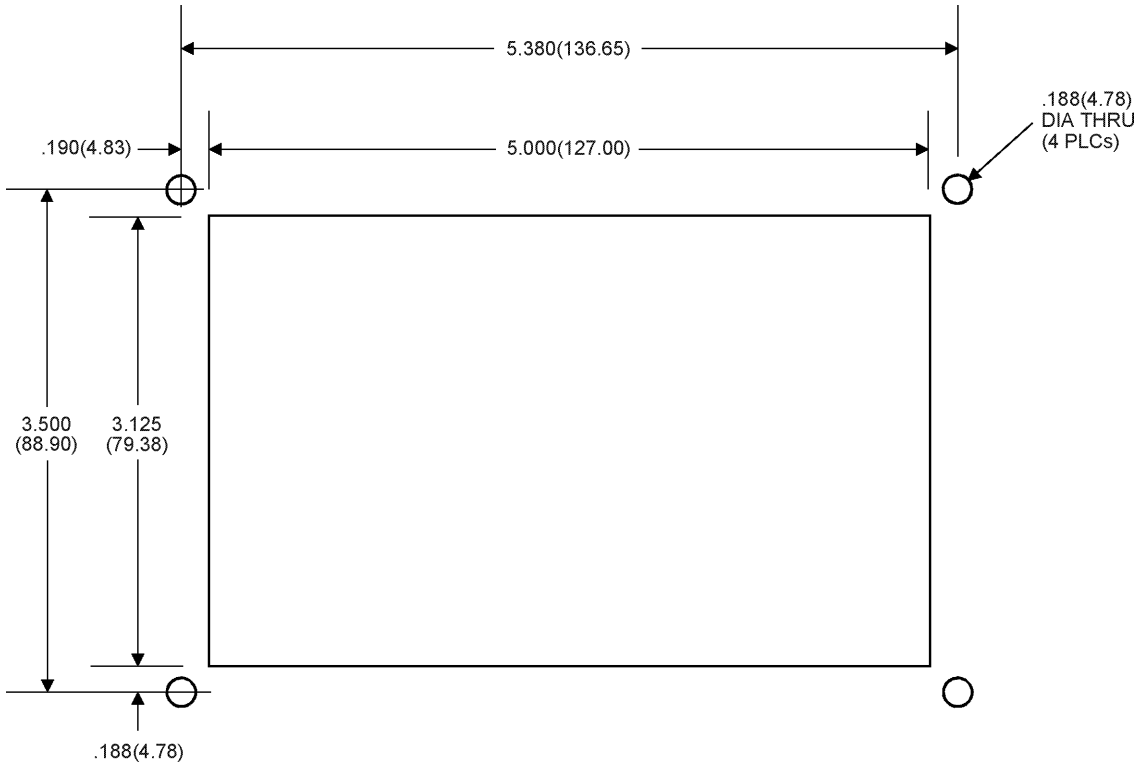


Figure 3-6. Front Mounted Floppy Cutout Dimensions

Mount the floppy drive access door to the rack filler plate or the panel, using the four mounting nuts, as shown in Figure 3-7. Torque the nuts to 35 in/lb. (3.95 NM).

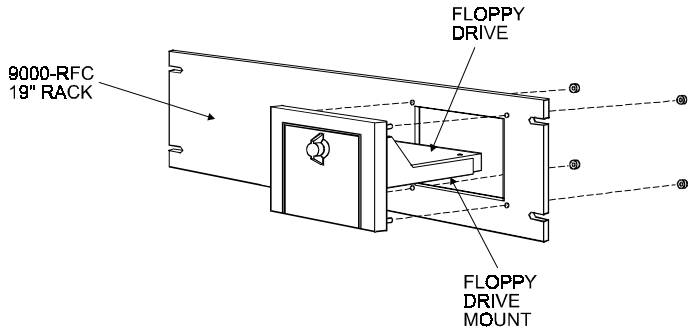


Figure 3-7. Floppy Drive - Front Mounting Option

The following figure shows an overhead view of the Front Floppy Kit with the floppy drive mounted.

Spare Parts List

3510/3512/3510KP/3512KP Spare Parts List

Description	Xycom Automation Part Number 3510	Xycom Automation Part Number 3512
Front Panel Assembly		
Touch screen		
TFT	117334-101	119045-101
KP[a]	132274-001	132290-001
Nontouch		
TFT	117334-001	119045-001
KP	132261-001	132287-001
Drives		
Hard Drive–2160 Mbytes	109456-004	109456-004
Solid State (Flash) Drive		
10 Mbytes	109469-004	109469-004
20 Mbytes	109469-001	109469-001
40 Mbytes	109469-002	109469-002
60 Mbytes	109469-003	109469-003
3.5", 1.44 Mbyte Floppy Drive	101610	101610
CPU Assembly		
AHIP4+ CPU kit	117319-001	117319-001
AHIP6+ CPU board[b]		
300 MHz Celeron	134613-001	134613-001
400 MHz Pentium II	133128-001	133128-001
450 MHz Pentium II	134639-001	134639-001
DRAM		
AHIP4+		
1M x 32 (4 Mbytes)	104273	104273
2M x 32 (8 Mbytes)	104258	104258
4M x 32 (16 Mbytes)	104302	104302
8M x 32 (32 Mbytes)	106054	106054
16M x 32 (64 Mbytes)	123514	123514
AHIP6+		
8M x 32 (32 Mbytes)	132442-001	132442-001
16M x 32 (64 Mbytes)	132455-001	132455-001
32M x 32 (128 Mbytes)	133813-001	133813-001
Replacement Bulb Assembly		
TFT		121578-001
TFT for 3512KP	121663-001	125155-001
9000-RFI 19" Rack Filler Plate	116771-001	116771-001
9000-RFC 19" Floppy Door Plate	110843-001	110843-001
Filter Media	110383	110383
Media Retainer	110650	110650
Input Power Connector	99711-001	99711-001
9000 Accessories		
9000-EXF External Floppy Kit	116074-001	116074-001
9000-FKA	116087-001	116087-001
9000-FFK	116061-001	116061-001

[a](panel assembly includes T/S controller)

[b]AHIP6+ board and processor must be ordered separately.