

PRO-3000

Professional Flat Panel Computer

USER MANUAL

NOTE:

This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to electronic user's manual in the supporting CD-ROM

Contents

Chapter 1: General Information

1.1 Overview	1
1.2 Specifications	2
1.3 Features	3
1.3.1 Swappable Power Unit	3
1.3.2 Swappable CD-ROM/FDD Module.....	3
1.3.3 Swappable HDD Module/To install a hard disk	4
1.3.4 System status LEDs	5
1.3.5 Brightness control.....	5
1.3.6 IrDA	5
1.3.7 Membrane keyboard.....	5
1.3.8 Touch pad	5
1.3.9 I/O port	6

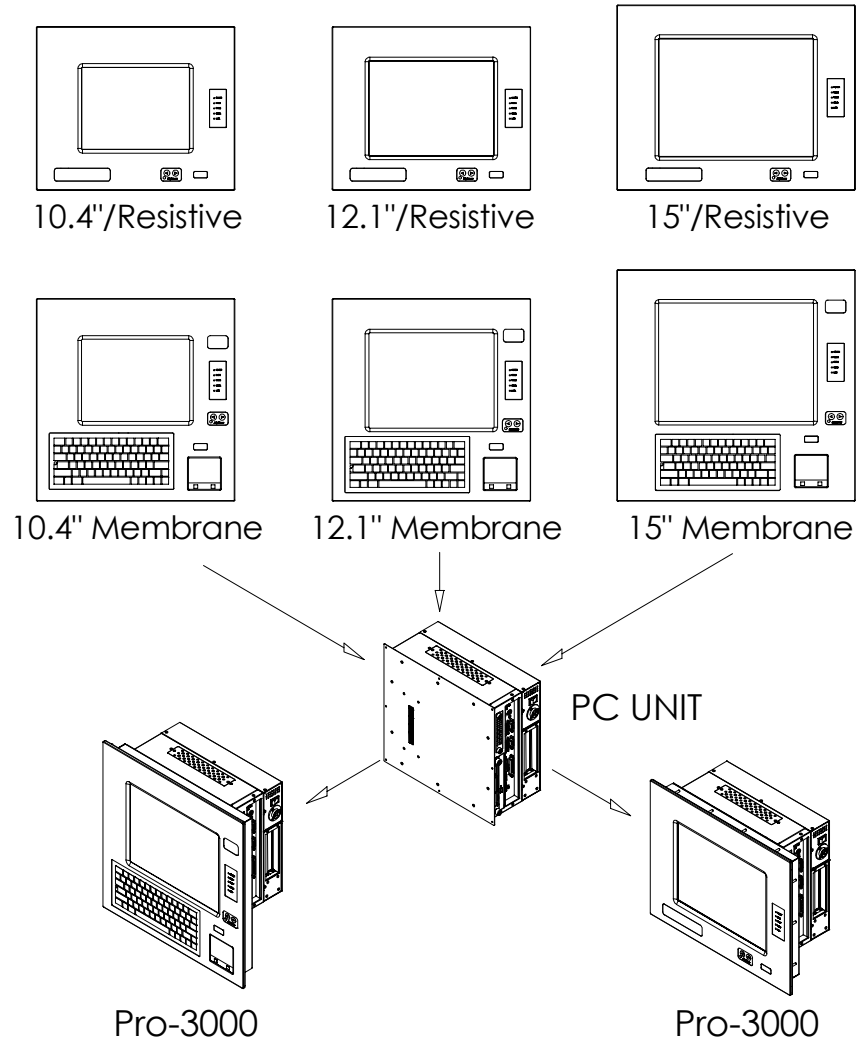
Chapter 2: Installation

7

2.1 To attach the PC unit to Display unit	7
2.2 To attach the Expansion unit to PC unit	7
2.3 To install an add-on card in the Expansion module.....	8
2.4 CPU configuration	9
2.5 DRAM installing	10
2.6 Dimensions	11
2.6.1 Dimensions of 10.4, 12.1 /Resistive.....	11
2.6.2 Dimensions of 10.4, 12.1 Membrane	12
2.6.3 Dimensions of 15 /Resistive	13
2.6.4 Dimensions of 15 Membrane	14
2.7 Mounting of PRO-3000	15
2.7.1 Cut out for 10.4, 12.1/Resistive of PRO-3000.....	16
2.7.2 Cut out for 15 /Resistive of PRO-3000	16
2.7.3 Cut out for 10.4, 12.1 Membrane of PRO-3000.....	17
2.7.4 Cut out for 15 Membrane of PRO-3000	17
2.8 COM1, COM2, COM4	18
2.9 COM2/ COM3/ COM4 RS-232/422/485 select (JP4, JP5, JP9).....	19

Chapter 1: General Information

1.1 Overview

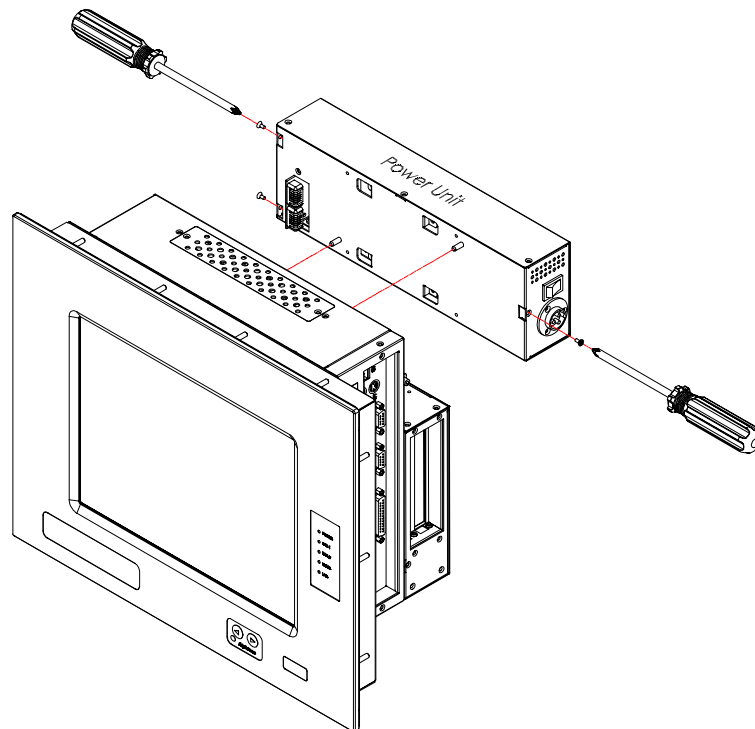


1.2 Specifications

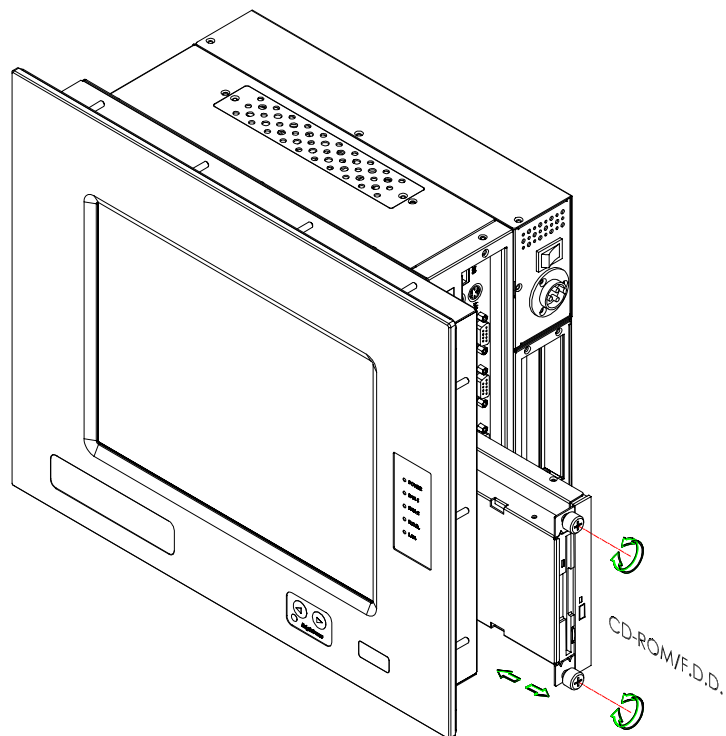
Pro-3000 General Specifications		
Processor	Socket 370 Celeron & P III Coppermine	
System Memory	32-512 MB	
Video Controller	PCI based SVGA Controller C&T 69000	
Display Memory	2 MB Onboard	
LCD	High brightness TFT LCD 10.4", 12.1", 15"	
Input devices (Optional)	Resistive touch screen	
	Membrane keyboard and touch pad	
COM ports	3 x RS-232 and 2 x RS-422/485 configurable	
Parallel port	One multi-mode SPP/ECP/EPP parallel port	
LAN	10/100 Base T auto-sensing Fast Ethernet port	
P/S 2, Keyboard ports	1x P/S 2 and 1 x Keyboard port	
H.D.D.	2.5" industrial grade H.D.D.	
CD-ROM	Slim line CD-ROM	
F.D.D.	Slim F.D.D.	
Solid State Disk	M-system Disk On Chip 2MB-244MB	
Power Supply	Input voltage: 100-240V AC Full Range, 47-63 Hz	
	Output voltage: +5V@12A, +12V@1A	
Expansion slots	1 x PCI, 1 x ISA or 2 ISA	
Operating Temperature	PC module	-25-60°C
	LCD panel	0-50°C
Relative humidity	5-58% non-condensing	
Industrial front panel	IP65, NEMA 4/12, Aluminum	

1.3 Features

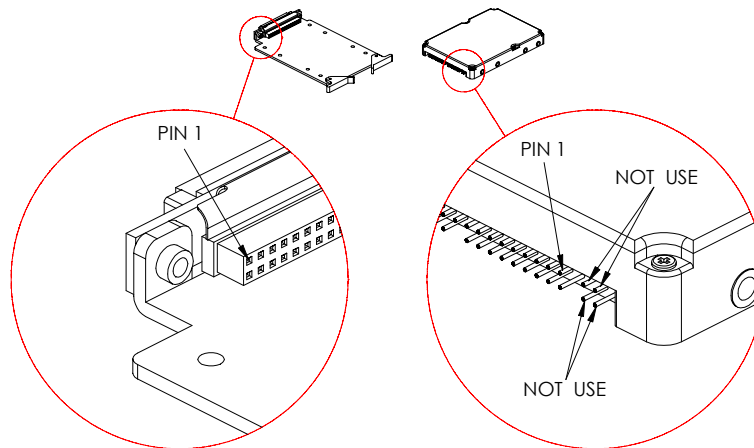
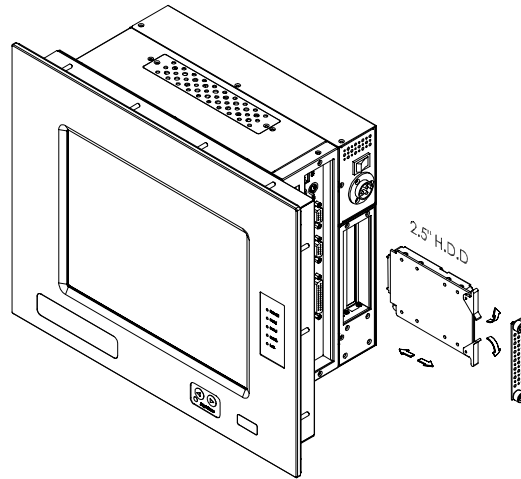
1.3.1 Swappable Power Unit



1.3.2 Swappable CD-ROM/FDD Module



1.3.3 Swappable HDD Module // To install a hard disk



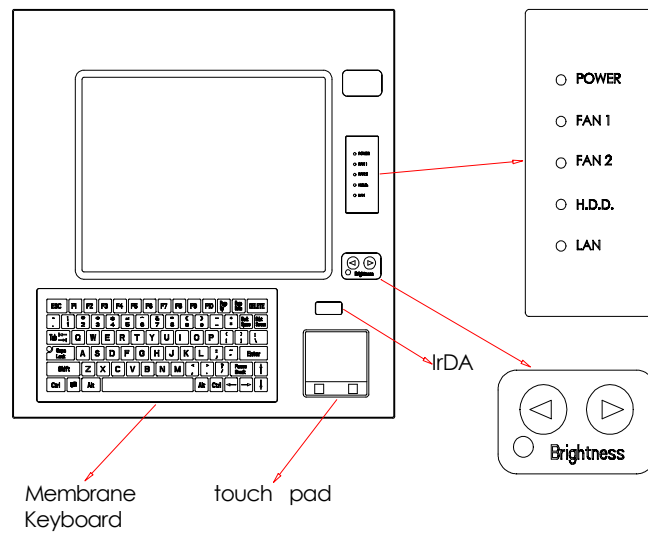
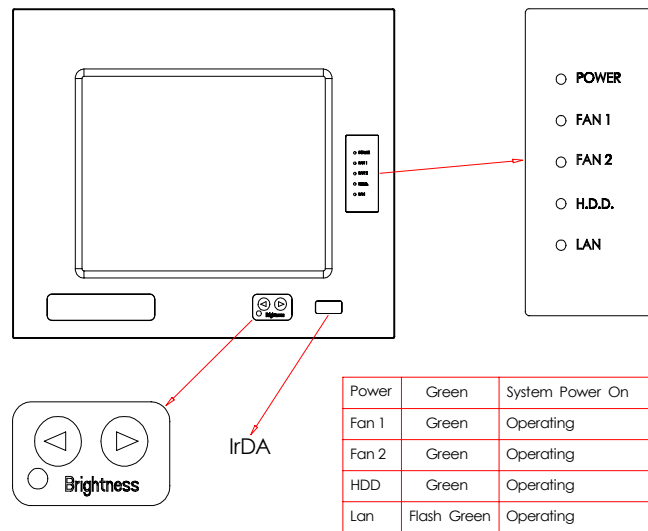
1.3.4 System status LEDs

1.3.5 Brightness control

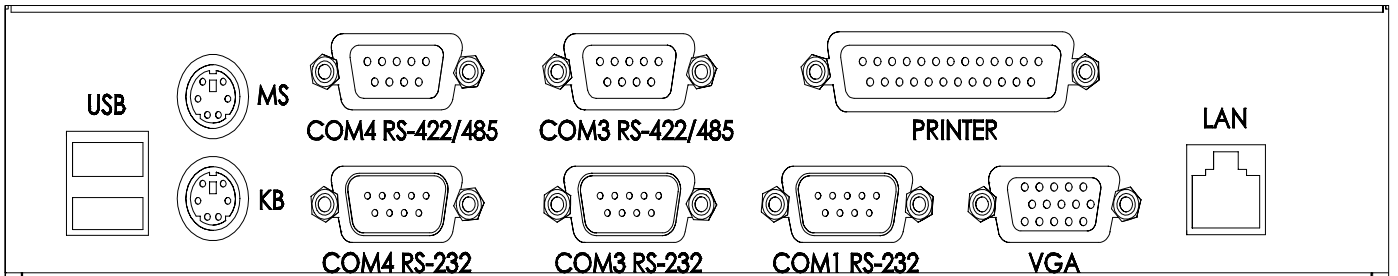
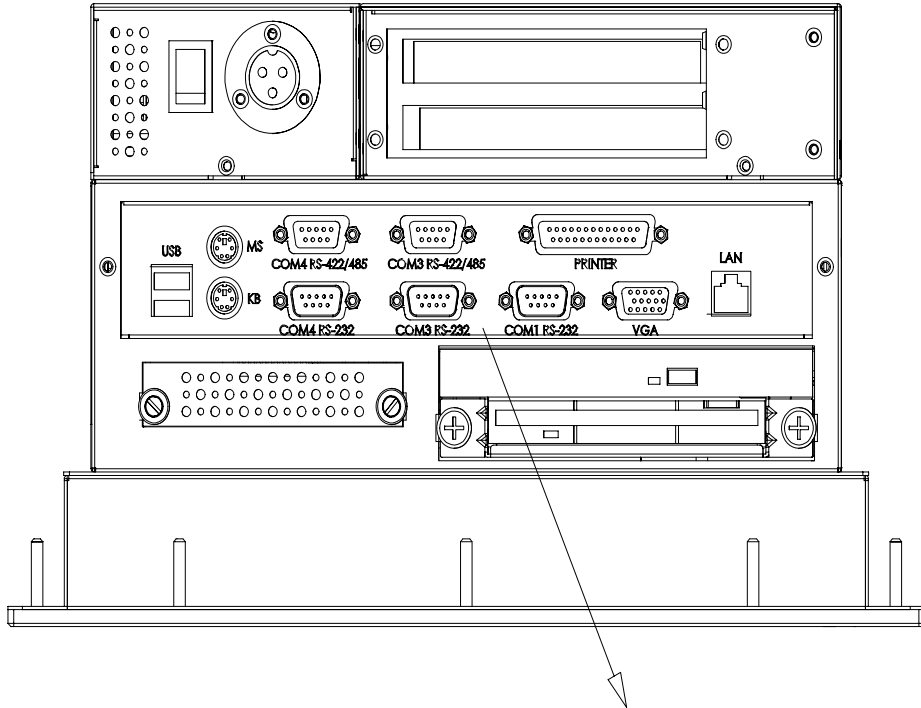
1.3.6 IrDA

1.3.7 Membrane keyboard

1.3.8 Touch pad



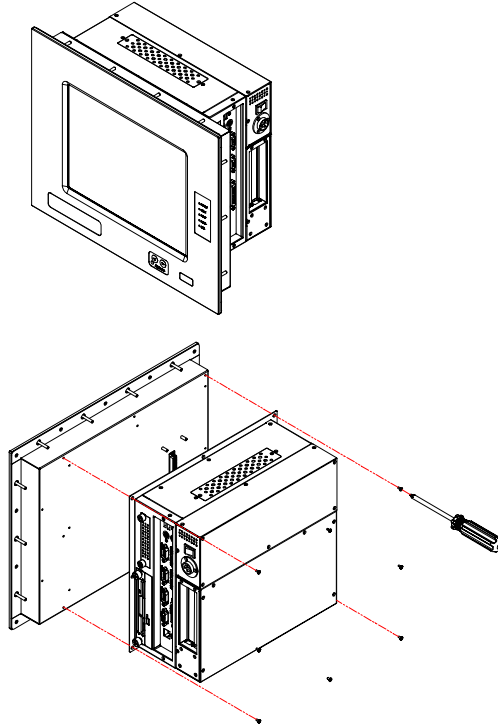
1.3.9 I/O port



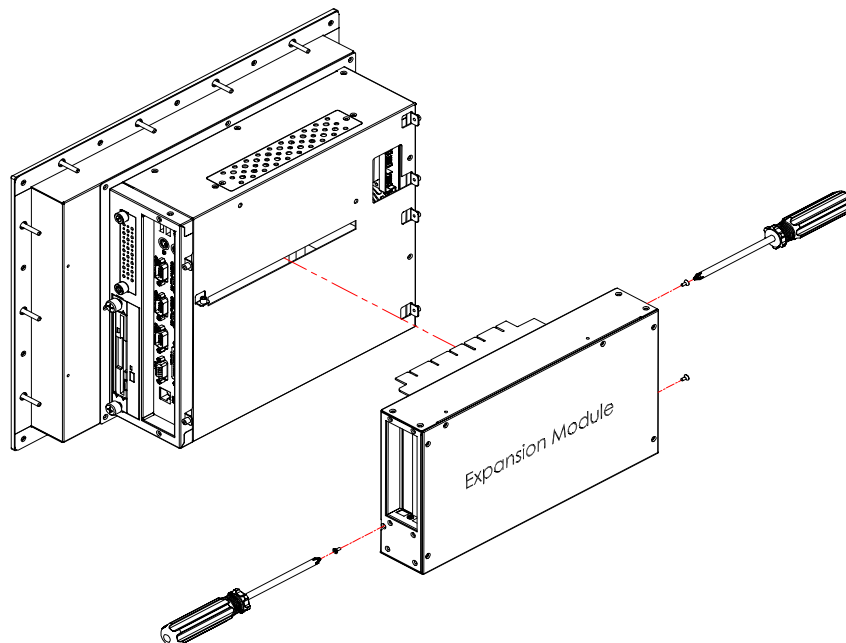
PS/2 MOUSE & KEYBOARD ports won't work while connecting the PC unit to Display unit with Membrane.

Chapter 2: Installation

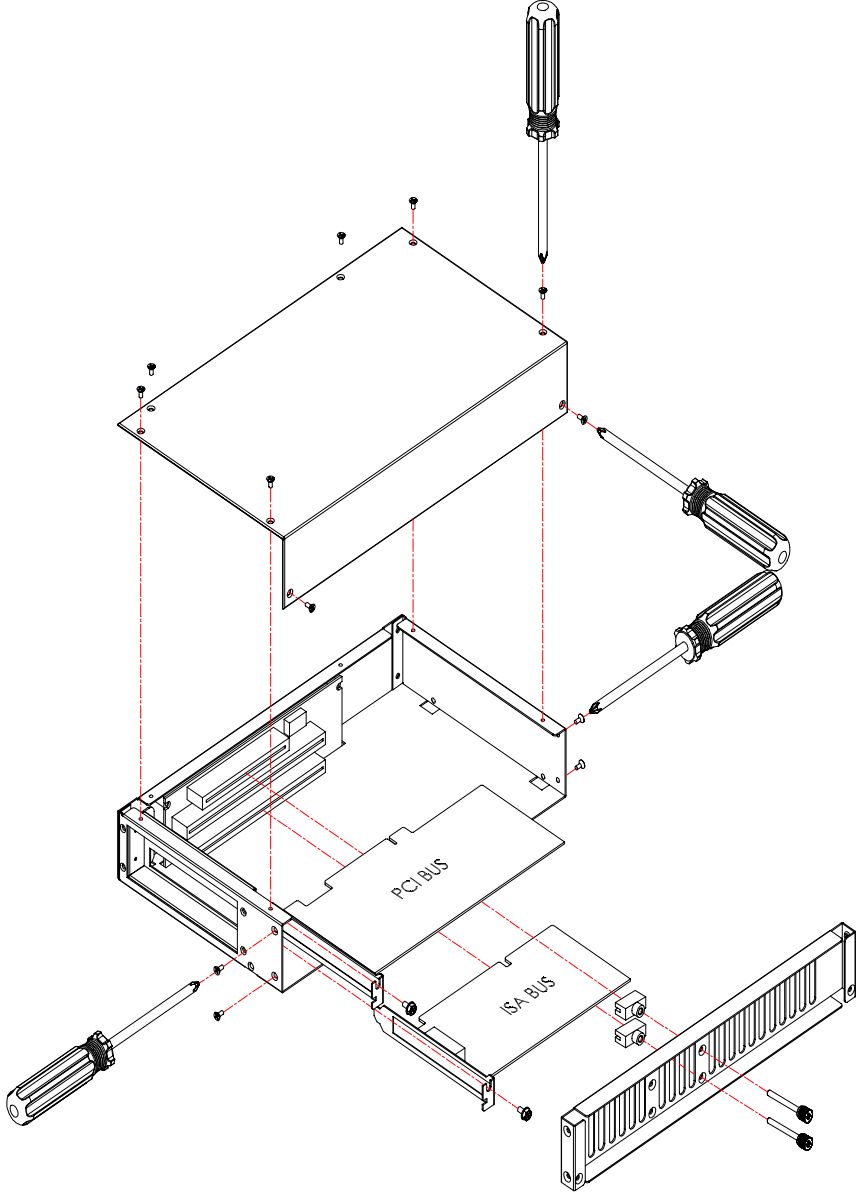
2.1 To attach the PC unit to Display unit



2.2 To attach the Expansion unit to PC unit



2.3 To install an add-on card in the expansion module



2.4 CPU configuration

Intel FC-370 Celeron, Pentium III (up to 850 MHZ, FSB 66 / 100 / 133)

MB-668 Series provides a Flip-Chip (FC) socket for easy CPU installation.

1. Make sure the FC-370 socket lever is in the upright position. To raise the lever, pull it out to the side a little and raise it as far as it will go.
2. Place the CPU in the empty socket. Follow the instructions that came with the CPU. If you have no instructions, do the following: Carefully align the CPU so it is parallel to the socket and the notch on the corner of the CPU corresponds with the notch on the inside of the socket. Gently slide the CPU in. It should insert easily. If it doesn't, pull the lever up a little more.
3. Press the lever down. The plate will slide forward. You will feel some resistance as the pressure starts to secure the CPU in the socket. This normal and won't damage the CPU.

When the CPU is installed, the lever should snap into place at the side of the socket.

Note: To remove a CPU, pull the lever out to the side a little and raise it as far as it will go. Lift the CPU chip out.

When you install a new CPU, be sure to adjust the board settings, such as CPU type and CPU clock. Improper settings may damage the CPU.

2.5 DRAM installing

System Memory

The left edge of the G-3000 MAIN BOARD contains a socket for 168-pin dual inline memory module (DIMM). The socket uses 3.3 V un-buffered synchronous DRAM (SDRAM). DIMM is available in capacities of 32, 64, 128, or 256 MB. The socket can be filled in the DIMM of any size, giving your Pro-3000 MAIN BOARD 512 MB memory.

Supplementary information about DIMM

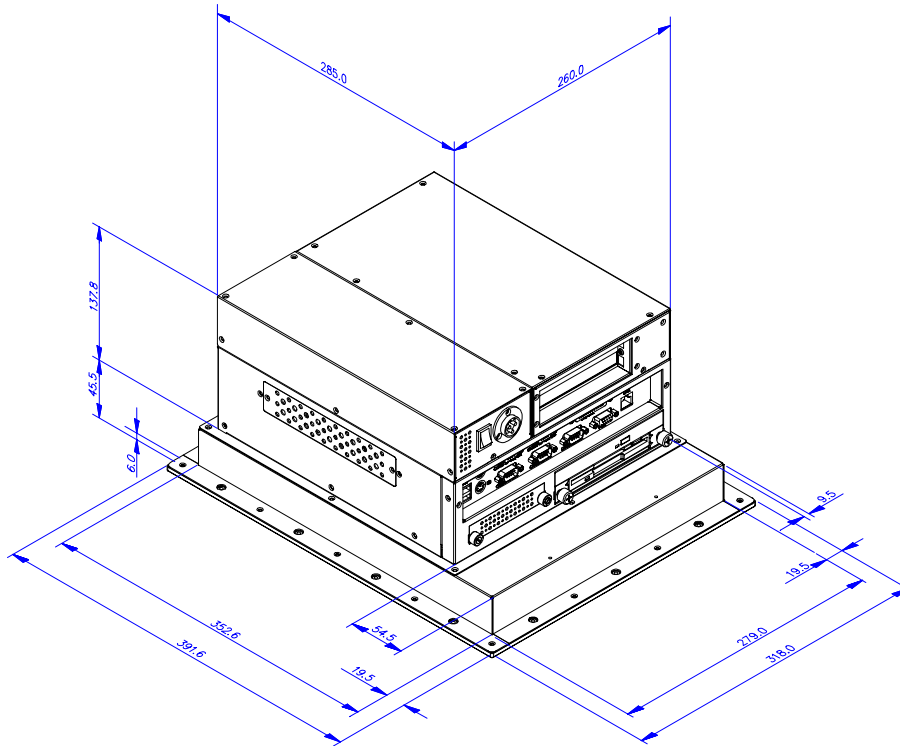
Your Pro-3000 MAIN BOARD can accept both regular and PC-100 or PC-133 SDRAM DIMM Module (with or without parity).

Memory Installation Procedures

To install DIMM, first make sure the two handles of the DIMM socket are in the **open** position. i.e. The handles remain outward. Slowly slide the DIMM module along the plastic guides on both ends of the socket. Then press the DIMM module right down into the socket, until you hear a click. This is when the two handles have automatically locked the memory module into the correct position of the DIMM socket. To take away the memory module, just push both handles outward, and the memory module will be ejected by the mechanism in the socket.

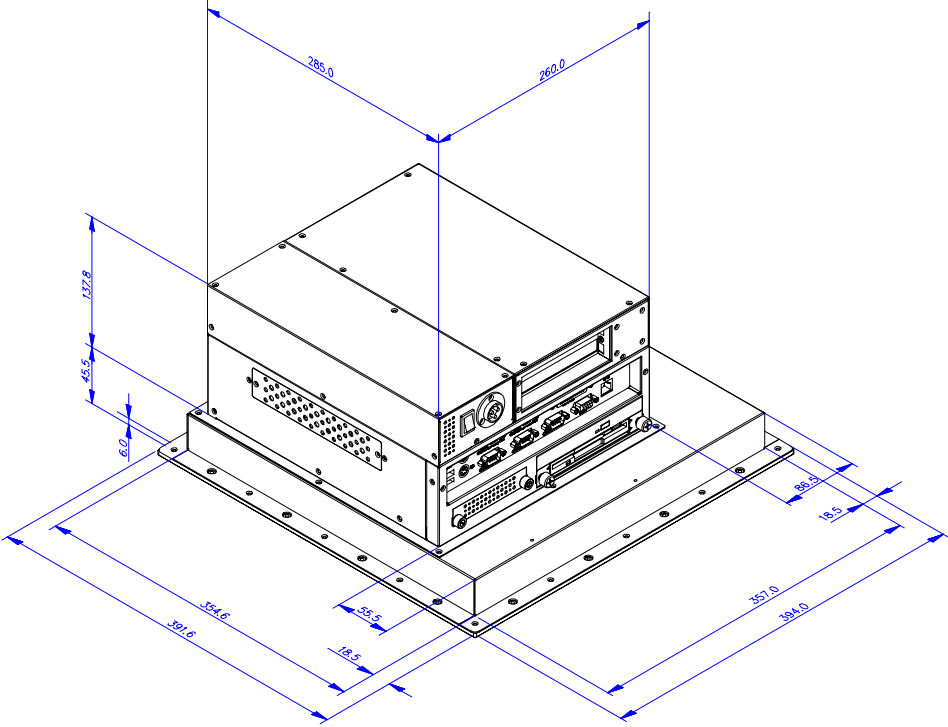
2.6 Dimensions

2.6.1 Dimensions of 10.4 / 12.1 Resistive



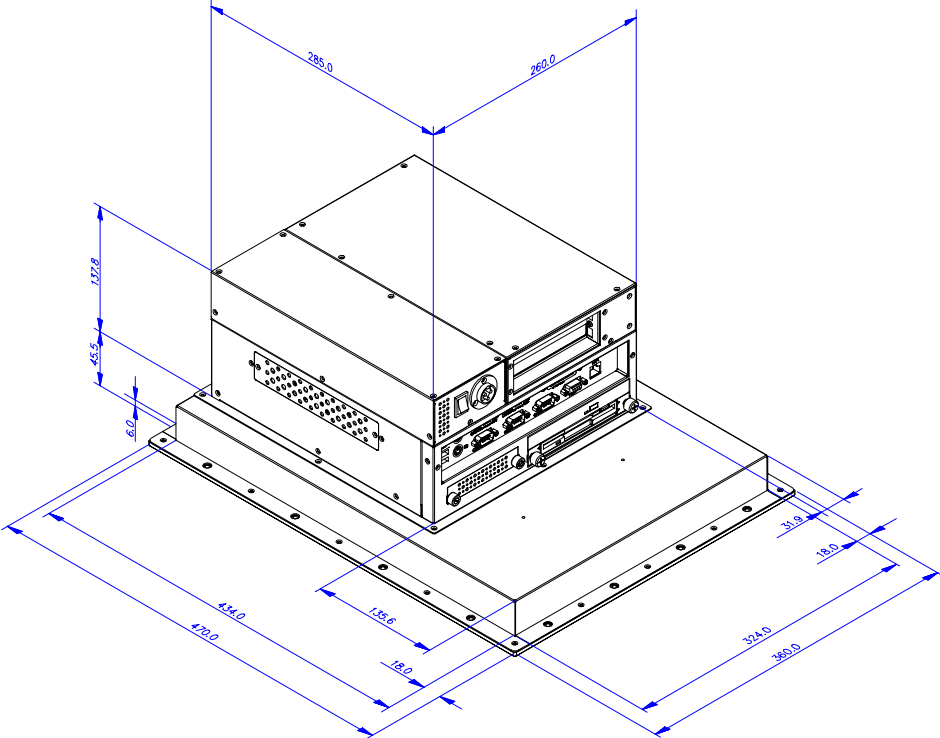
10.4 / 12.1 inches Resistive (unit: mm)

2.6.1 Dimensions of 10.4 / 12.1 Membrane



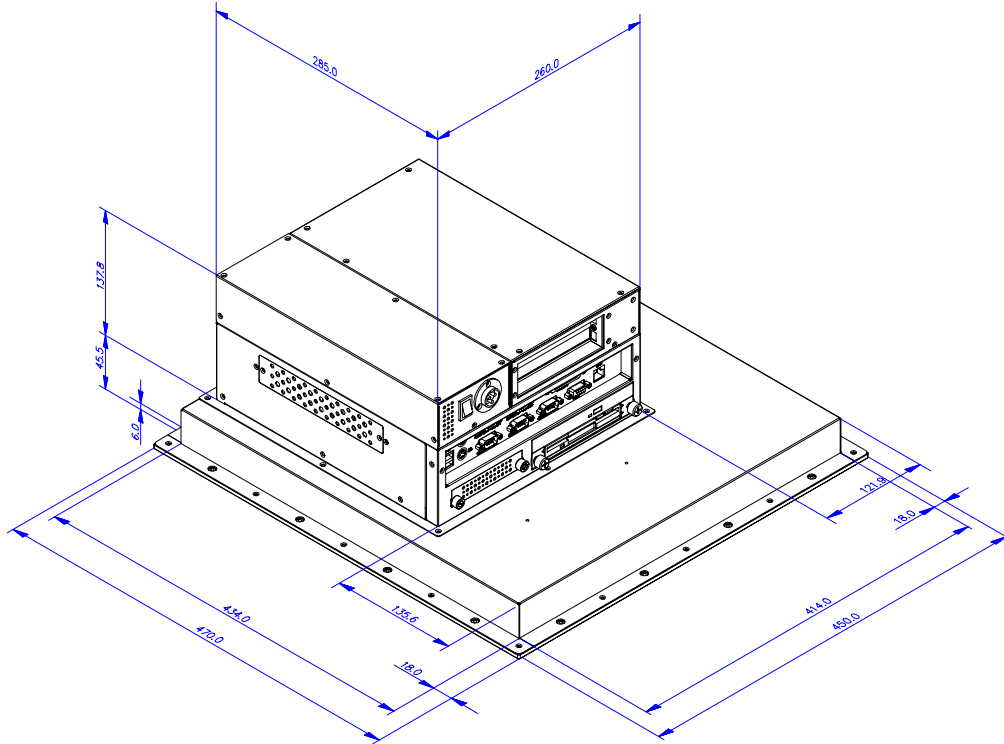
10.4 / 12.1 inches Membrane (unit: mm)

2.6.3 Dimensions of 15 inches Resistive



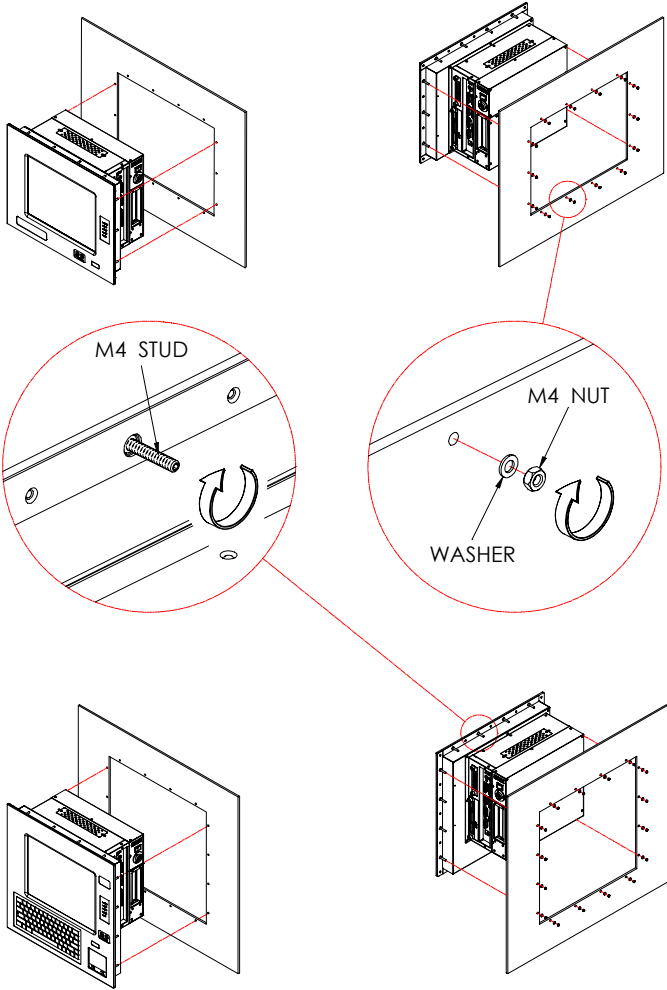
15 inches Resistive (unit: mm)

2.6.4 Dimensions of 15 Membrane

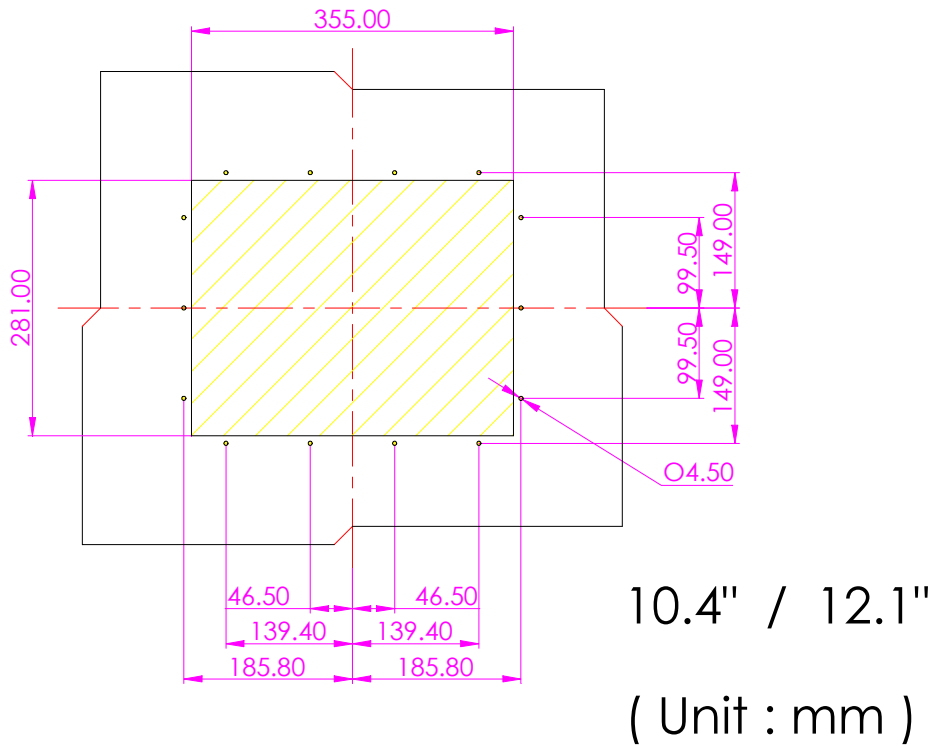


15 inches Membrane (unit: mm)

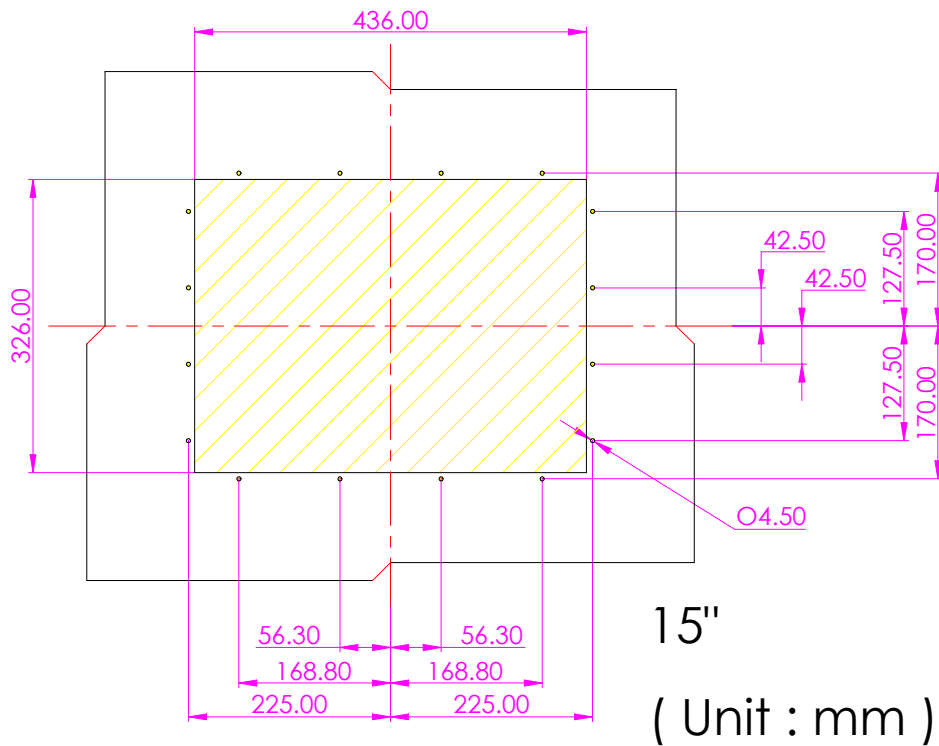
2.7 Mounting of Pro-3000



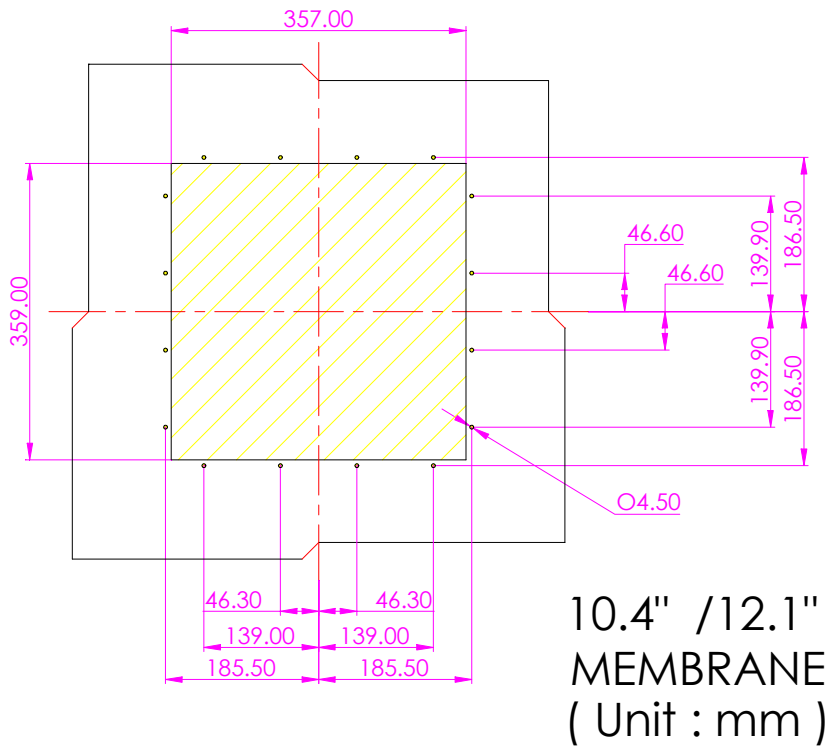
2.7.1 Cut-out for 10.4 / 12.1 Resistive of Pro-3000



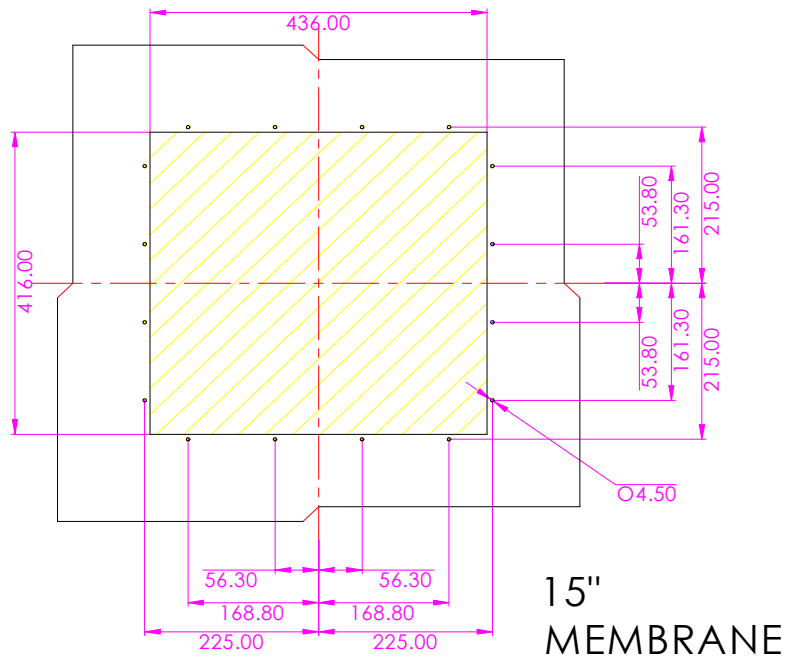
2.7.2 Cut-out for 15 Resistive of Pro-3000



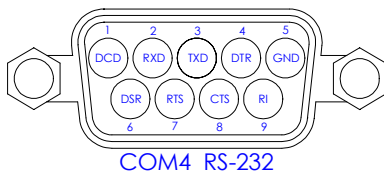
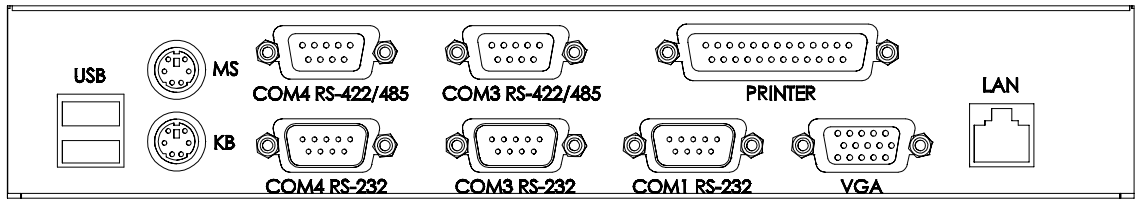
2.7.3 Cut-out for 10.4, 12.1 Membrane of Pro-3000



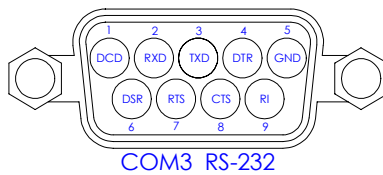
2.7.4 Cut-out for 15 Membrane of Pro-3000



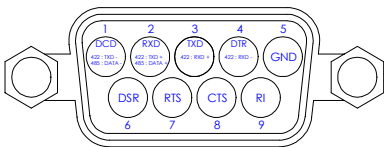
2.8 COM1, COM2, COM4



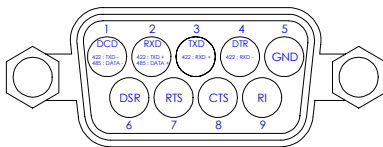
COM4 RS-232



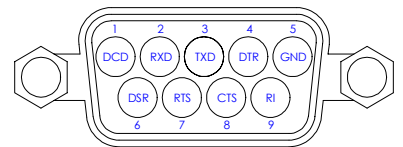
COM3 RS-232



COM4 RS-232/422/485



COM3 RS-232/422/485



COM1 RS-232

COM3/COM4 RS-232/422/485 Selection (JP9)

By manually setting JP9, configurations for COM3/COM4 can be set corresponding with RS-232/422/485 selection. Please see illustration as follows:

* RS-232				RS-422				RS-485			
1	3	5	7	1	3	5	7	1	3	5	7
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	4	6	8	2	4	6	8	2	4	6	8

* Default

COM3/COM2 RI Function/Voltage Selection (JP10)

RI function or voltage selection configurations for COM3/COM2 can be set manually through jumper JP10. Jumper settings are illustrated as follows:

	* RI Function			+5Vout			+12Vout		
COM3	1	3	5	1	3	5	1	3	5
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	2	4	6	2	4	6	2	4	6
COM2	7	9	11	7	9	11	7	9	11
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	8	10	12	8	10	12	8	10	12

* Default