OPERATOR INTERFACE PRODUCTS APPLICATION NOTE

Description: Differences between Xycom 4800 and 2000 Series Industrial Terminals

There are 4 major considerations when upgrading to the 2000 Series from the 4800 Series Xycom:

1. Connector Size

> The connector on the 4800 series most often was a female, 25 pin, D connector when using RS-232. Other connectors for special communications modes included 9 pin, 15 pin and 37 pin, D connectors.
>
> The 2000 Series workstations have two 9 pin ports, both can be configured to either RS-232 or RS-422/485. All of the 2000 Series workstations ship, configured for RS-232.

2. Available Free RAM

> The 4800 Series at most only had 55K of available free memory (The AB F30D, the one exception, does come with 128K). The 4800 Series was NOT expandable to any more memory.
>
> The 2000 Series ships with 128K chip, but depending on the firmware, it will have a smaller amount available. If using the 96438-001 (this ships with every 2000 Series workstation) there will only be 60K available. Any of the other 96438-0XX chips, where XX is a number between 04 and 33 representing the OIL driver, the 2000 will have 124K available. If using any of the 97712-0YY chips, where YY is a number between 06 and 33 representing the SoftScreen driver, the 2000 will 96K available. The 2000 Workstations do have the capability to expand the amount of RAM. The 2112-MEM will add an additional 128K to the OIL 124K for a total of 251K. The 2112-MEM will add an additional 128K to SoftScreen's 96K for a total of 224K. The 2112-MEM will NOT add any available memory to the 2000 when using the 96438-001 chip. If you are already using or planning to use another model 2112, other than the 2112-MEM, and you want/need more memory, order the 2000-MEM, this is a chip that plugs into the socket on your existing 2112 and will add 128K to SoftScreen or OIL.

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3. Register #11

> When using the 4800 Series OIL, it was possible to use the OIL register, #11. When using the 2000 Series OIL, register #11 is used as the touch screen buffer, and is not available as a write register. Xycom now recommends that you do not use any register below #20 for OIL programming.

4. Keypad Differences

> There are differences in the keypad keycodes between the 4800 and 2000 series. Most of the numbers and letters SHOULD be the same, but some of the function keys, Roman numerals, PF keys and others may be different. One way to get around this is to find all references to keypads or keyboards in the OIL code and make adjustments. Another is to make changes in the HOST program to recognize new keycodes. This does not influence SoftScreen because it was never available on the 4800 Series.