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2.4 Standard Modules

This section gives a brief description of the standard modules. Each module is covered in more detail in a separate chapter in this user's guide.

System Processor (030 or 040)

A System Processor module is required for all Adept MV controllers, and it can be either an 030 or an 040 module. Either of these modules can also be used as an auxiliary system processor in Adept systems; see "Auxiliary Processor" on page 18.

030 Module

The 030 is a single-slot 6U VME module that can serve as the main system processor for an Adept MV controller. The CPU for this module is a Motorola 68030 microprocessor running at 40 MHz. The module can be configured with 2, 4, or 8 MB of DRAM (Dynamic Random Access Memory), and this memory can be upgraded in the field. This module also includes a Motorola 68882 math coprocessor.

The 030 module has two serial I/O ports on the front of the module: one is an RS-232 port, and the other is an RS-422/485 port.

040 Module

The 040 module is a single-slot 6U VME module that can serve as the main system processor for an Adept MV controller. The CPU for this module is a Motorola 68040 microprocessor running at a minimum of 25 MHz. The module can be ordered with 4 or 8 MB of DRAM. It is not possible to upgrade a 4 MB module to an 8 MB module.

The 040 module has two serial I/O ports on the front of the module: one is an RS-232 port, and the other is an RS-422 port.

System Input/Output Module (SIO)

The System Input/Output module (SIO) is also required for all Adept MV controllers. The SIO is a two-slot 6U VME module that handles the basic I/O for an Adept MV controller. The SIO module features include:

- 3.5" high-density 1.44 MB floppy drive
- Internal hard drive (Š 80 MB)
- Digital I/O connector for 20 channels (12 input, 8 output)
- Three general-purpose RS-232 serial I/O ports

- Connector for an optional External Front Panel (VFP)

The SIO module controls the system Emergency Stop (E-Stop) circuitry. The system real-time clock/calendar functions and non-volatile memory for Adept software license bits are also handled by the SIO module.

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