

IntelliVue MP5/MP5T

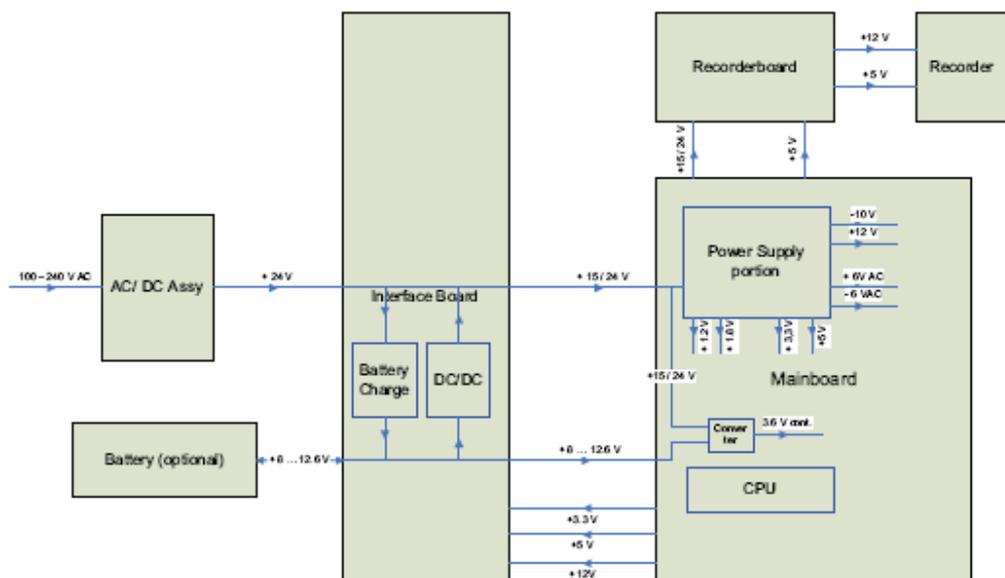
The MP5/MP5T monitor:

- integrates the display and processing unit into a single package
- uses a 8.4" TFT SVGA color display
- uses the Touchscreen as input device
- integrates the measurement block (Front End 1 (FE1) and Front End 2 (FE2)) with optional parameter sets

Optional Hardware

- One slot is provided for one of three available system interface boards. An optional built-in wireless network interface IntelliVue 802.11 Bedside Adapter or IntelliVue Instrument Telemetry) is supported. For further details regarding the wireless network please refer to the M3185A Philips Clinical Network documentation.
- optional recorder
- optional battery
- optional MSL board
- optional Short Range Radio (SRR) board

Power Distribution



Power Distribution Architecture

The AC/DC converter transforms the AC power (100-240 V AC range) coming from the power plug into a 24 V / 50W DC source and isolates the monitoring system from the AC power mains.

The 24 V DC is distributed via the Interface Board to the optional battery charging circuit and to the main- and recorder board.

If the interface board contains the optional battery circuits, the power is used to charge the battery and supply the monitoring system. As soon as the AC power source is disconnected, the optional battery starts and keeps the system powered (battery mode). A DC/DC converter on the interface board converts the 8-12.6 V DC power supplied by the battery into 15 V DC power, which is distributed to the monitoring system.

The main board and recorder board contain power supply circuits, which convert the 24 /15 V DC into several voltages supplying the particular components of the monitoring system.

The realtime clock and the buffered RAM is supplied with cont. 3.6 V DC power, provided either by the 24 / 15 V DC system power or by the battery power and converted to 3.6 V DC.

The CPU board has an MPC852/62 MHz processor in the patient monitor that provides a number of on-chip, configurable interfaces. An array of fast UARTS with configurable protocol options are implemented in an ASIC (along with other system functions such as independent watchdogs, video, etc.), providing interfacing capabilities to integrated measurements and System Interface Boards. The serial interfaces can easily be electrically isolated. The main board contains additional video hardware.

The CPUs provide a LAN interface to connect to the Philips Clinical Network (Ethernet).

NOTE

An MP5 in companion mode does not receive its power from the host monitor via the MSL. MP5 is always powered by AC power or battery.

System Interfaces

The following is a list of Interface boards which may be present in your monitor, depending on your purchased configuration:

System Interface boards:

- Basic: LAN, Video #J01(no longer orderable)
- Battery: LAN, Battery Board, mCO₂ #J02
- Full: LAN, Battery, MIB/RS232, Video, Nurse Call, mCO₂ #J40

Note that WLAN, IIT and MSL Interface require the full system interface board.

The MP5T is delivered only with the battery system interface board.

The specifications for the above listed interfaces can be found in the technical data sheet for the monitor and in the *Installation and Specifications* chapter of the Instructions for Use.