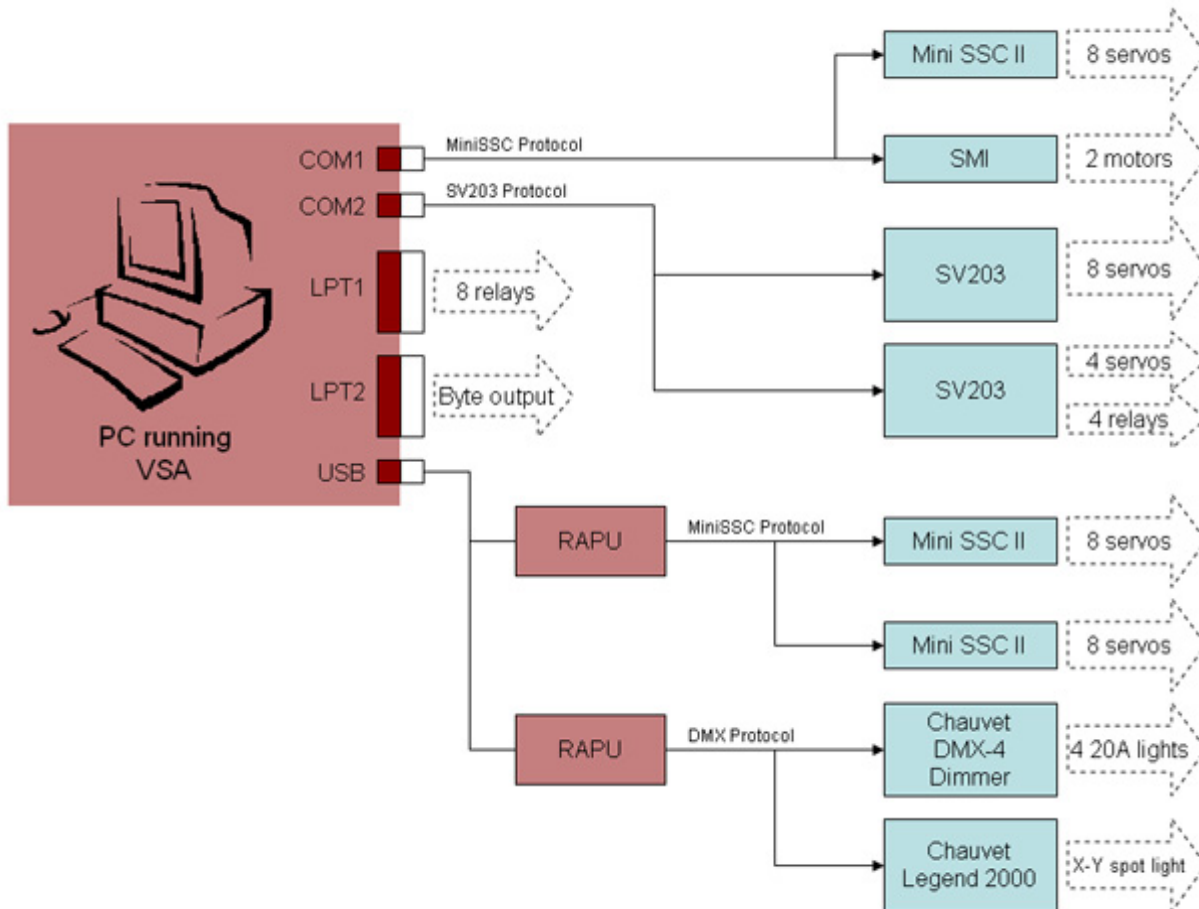
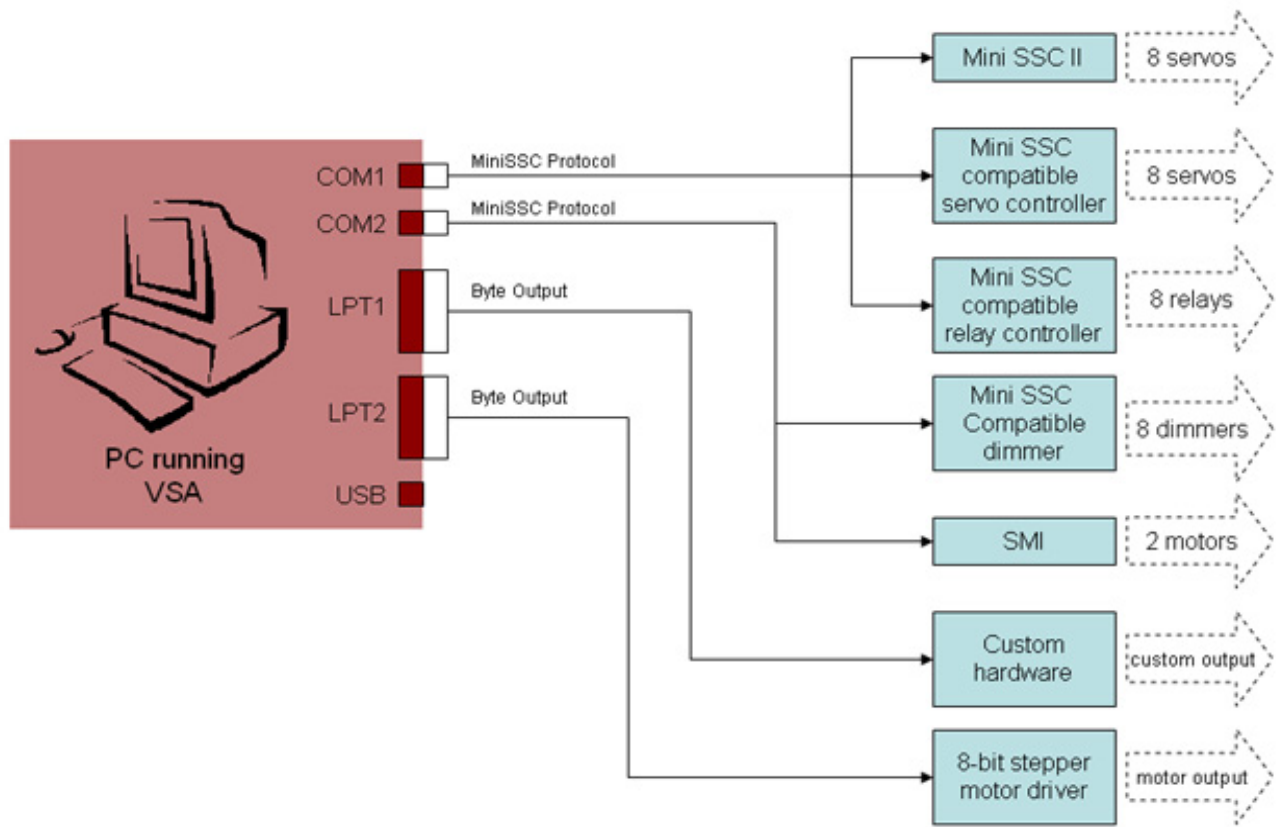


VSA coordinates the operation of multiple devices, simultaneously over any combination of serial, parallel, USB, audio, and video interfaces. Below are several examples of system setups which will help you discover how VSA can work in your production. Please visit the hardware manufacturer's website for details on how to properly configure the hardware to work in the illustrated configurations.

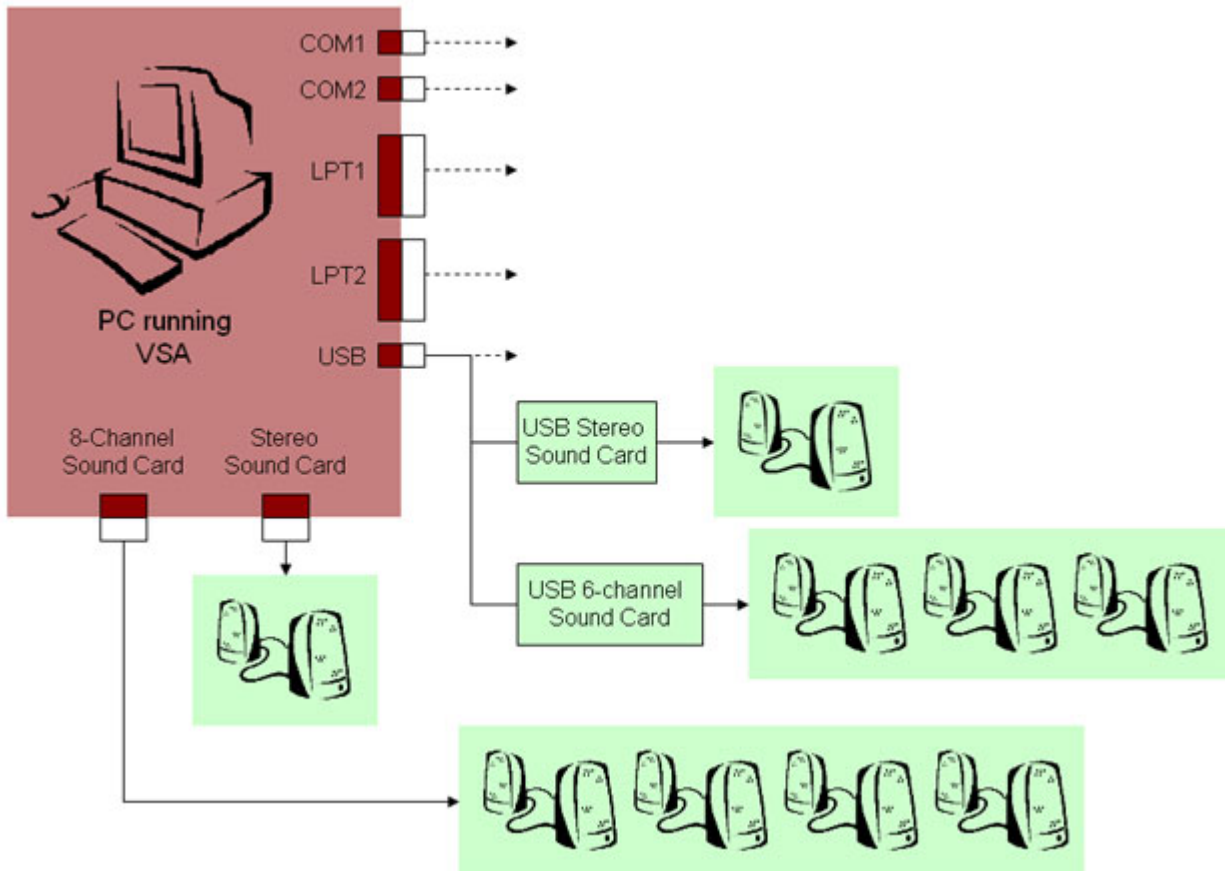
Example 1. In this example, VSA is controlling 24 MiniSSC servos, 2 SMI motors, 12 SV203 servos, 4 SV203 relays, 8 LPT relays, 4 DMX 20-Amp stage lights, 1 DMX X-Y scanning spot light, and 1 byte of generic LPT output. Notice that up to the maximum number of devices can be connected to any one port. For example, using VSA Hobbyist, as many as 128 MiniSSC devices could be connected on COM1. Also note that in this configuration, the RAPU is acting as a "repeater" and retransmitting the MiniSSC and DMX commands sent from the PC. The RAPU, the Velleman VM116/K8062, or the ENTTEC Open/Pro DMX USB is required to generate DMX output.



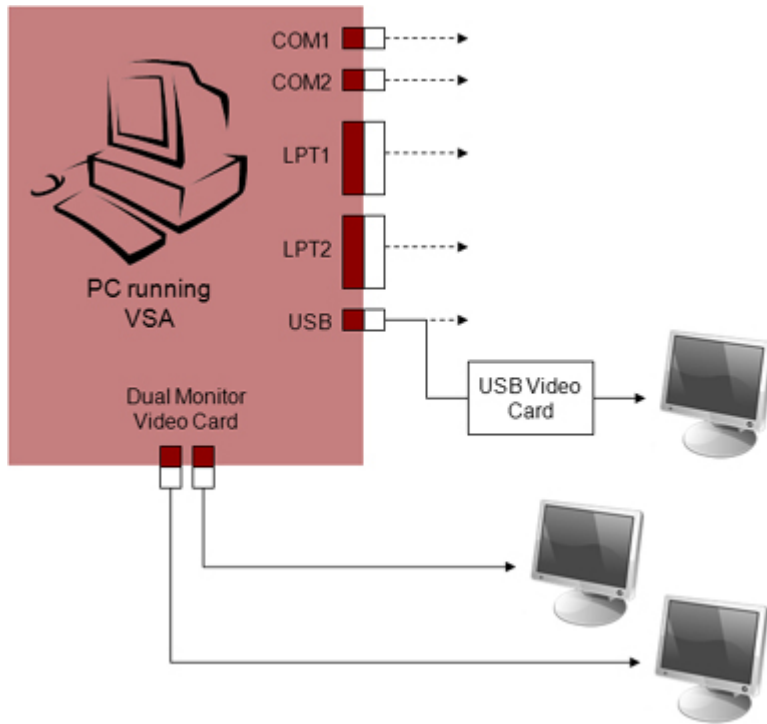
Example 2. In this example, VSA is controlling 16 servos, 8 relays, 8 dimmers, 2 motors, 1 stepper motor, and custom hardware. Notice that ports with compatible devices, for example the MiniSSC and SMI, can be combined in any combination. More than one port can use the same protocol (e.g., both COM ports use the MiniSSC protocol). The byte output option of the parallel port can be used to control custom hardware and even compatible stepper motor drivers.



Example 3. In addition to the hardware configurations in the other examples, VSA can also control multiple audio output devices. In this example, VSA is being used to control two internal sound cards and two external, USB sound cards. Each audio output device can play a different audio file. VSA will support up to 8 speakers on each channel (e.g., stereo, 5.1 and 7.1 audio).



Example 4. VSA Professional and Ultimate can also synchronize video. In this example, VSA is being used to control an internal video card and an external USB video card. Each video can be configured to play in full screen on a particular monitor or play in a window, taking up only a portion of a monitor. VSA officially supports the Microsoft RGB Raw AVI and XVID video formats.



Example 5. In this example, VSA again combines several different types of output. The RAPU can control both DMX and MiniSSC devices (see this and previous examples). The Velleman VM116/K8062 DMX-USB converter can also be used to control up to DMX devices at addresses 0-511. The ENTTEC Open/Pro DMX USB can also be used in place of the Velleman controller.

