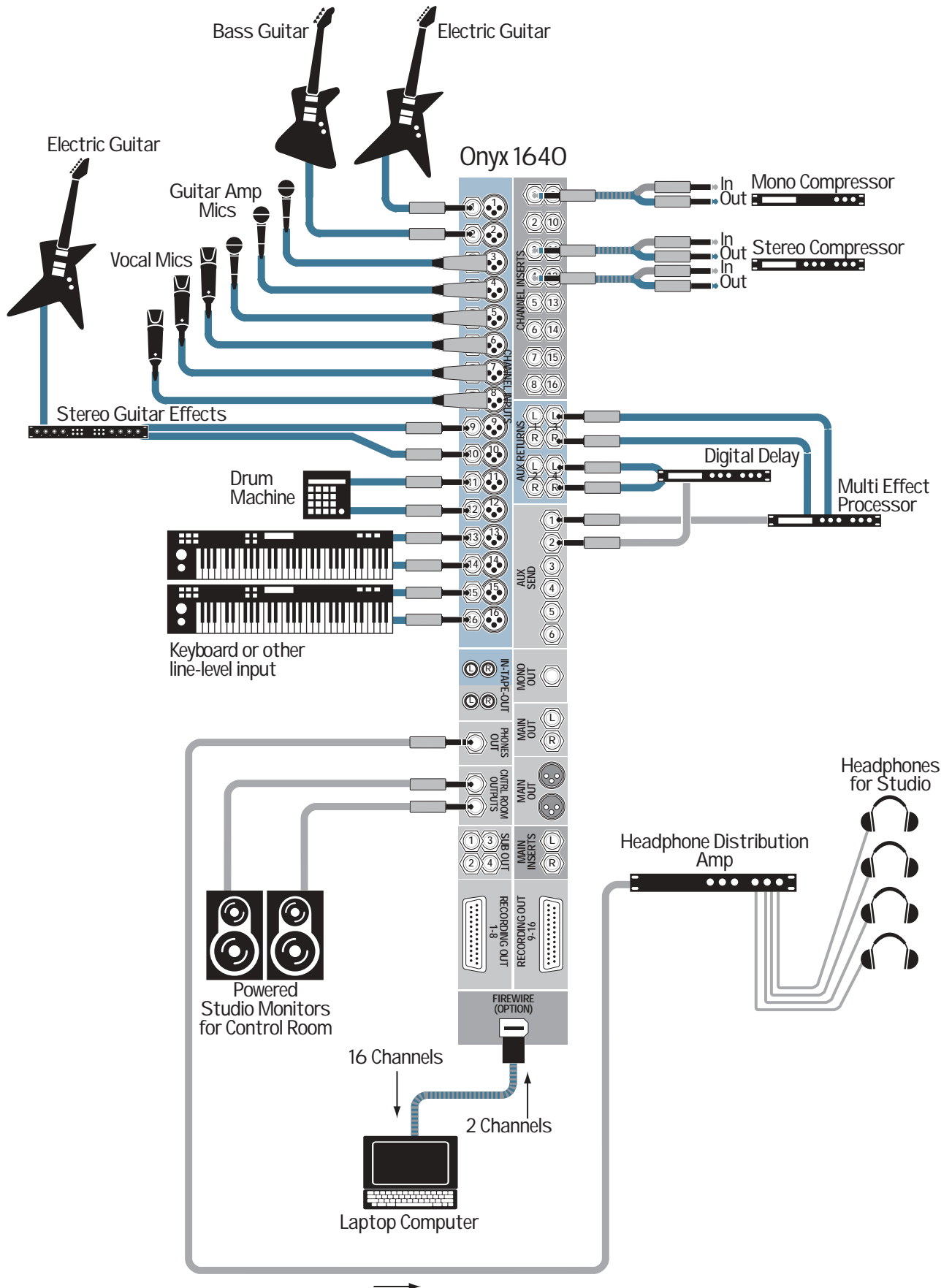


# Onyx FireWire Recording



The Onyx series mixers have an option slot that holds a FireWire digital audio interface. With the FireWire card installed, direct outputs from all the channels plus the Main L/R mix (up to 18 channels with the 1640) are digitized and can be sent directly to a computer for recording. This is functionally similar to any of the multitrack recording setups with a couple of exceptions:

- The recorder is a computer.
- The recorder has up to 18 inputs, but only two outputs.

Because of this, we can't use the split monitoring setups that we've described for 8- and 16-track recording since we don't have an output from the recorder for each track. When recording with the Onyx FireWire setup, you must depend on your DAW software for monitoring while tracking, and use your DAW's built-in mixer for mixing.

If you're accustomed to using a computer DAW, this will be old hat to you. With the FireWire-equipped Onyx, you'll enjoy the convenience of a whole mixer full of nice clean mic preamps, direct monitoring of your inputs when tracking (zero latency), and an added bonus of being able to submix multiple inputs to a stereo pair of tracks for when you're doing those horn section or choir overdubs and want to live on the edge (and save some mixdown time) by recording a stereo mix of a group of mics.

The FireWire option card comes with its own manual that explains the computer setup and basic operation for tracking and overdubbing.

## Band Setup

The application diagram on the next page is a band setup that should give you some ideas. With only a single cable between the console and recorder, you don't have a lot of hookup decisions to make.

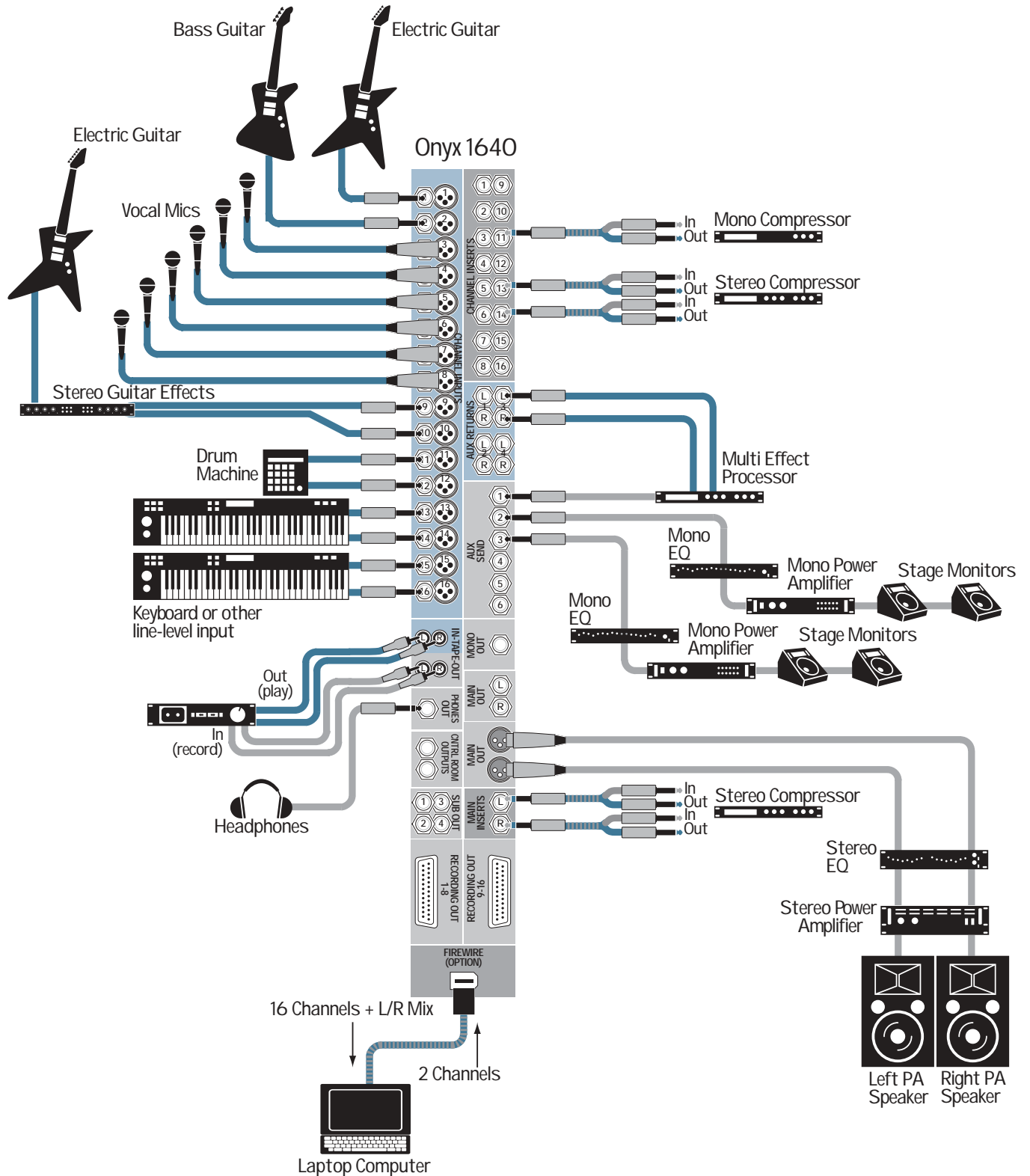
With the Onyx driver installed on your computer and the FireWire cable connected, the console appears to the computer as a sound card with eighteen outputs (numbered 1-18 of course). These correspond directly to the mixer channels, with Inputs 13 through 16 not used on the 1220 because there are only 12 channels. Inputs 17 and 18 are the main L/R mix outputs. The Analog-to-Digital (A/D) converter on the option card takes its inputs directly off the output of the GAIN (input trim) control, after the mic preamp on mic/instrument channels, but pre-everything, even the high pass filter.

The two channels returning to the mixer from the DAW go directly to the Control Room/Phones Source selection matrix. Pressing the FireWire button works just like the 2-track Tape input, sending the mix playback from the computer to the control room monitor section of the console.

While the FireWire option works fine in the studio, it really shines for live recordings. Set up the console for live PA and shoot the inputs right to a laptop computer for mixdown when you get home.

The setup is similar to the recording setup, with stage monitors replacing the headphone amplifier and PA speakers connected to the MAIN outputs. The band setup drawing shows the guitars going directly to the console, but we know you'll be using amps, and there are plenty of mic inputs.

# FireWire Band Setup



## Notes

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