

Micro 1401 mk II and a Power 1401



Micro 1401 mk II



Power 1401

The Power1401 is faster, and has more instrumentation ports than the Micro. The Micro has the facilities and the speed that most users need, most of the time.

The Power processor is typically some 3x faster

and the base memory is 32x larger, enabling more complex on-line analysis, seen for example in spike shape recognition, where the both the number of channels and the number of templates can be increased, with much faster shape matching. The Power can manage 32 spike shape channels, the Micro 16.

The Micro memory can be expanded from 1 to 2 MB; the Power memory from 32 to 256 MB. More memory stores bigger output waveforms and allows longer sweeps of captured data.

The number of ports on both models can be considerably expanded, and for very large numbers of signals, several 1401s can be synchronised to each other, or to an external source.

Waveform capture is comparably fast on both. The Micro, multi-channel, can run at 500 kHz, the Power at 625 kHz. The Power can have programmable gain for its waveform input and output.

The Power1401 has 16 waveform input ports, compared with 4 waveform inputs on an un-expanded Micro. There is an option of programmable gain on all 16 inputs. There are 4 waveform outputs at 16 bit resolution on the Power 1401 and 2 at 12 bits on the Micro. The Power waveform outputs may be increased to 8 with an optional expansion unit.

The Micro1401 is physically smaller, and somewhat lower in cost than the Power1401.