STAX DAC-TALENT

COMPACT RELIABLE HIGH RESOLUTION
DIGITAL to ANALOG PROCESSOR

Comment by the designer

The process of recording and reproducing sound using digital technology has sky-rocketed in recent years. Due to diligent and skilled efforts of the audio engineering community, the majority of problems associated with digital sound reproduction have been solved.

Expressing enthusiasm for the digital medium, STAX released the DAC-X1t in 1989 as their reference digital to analog processor. It was a stand alone component build to exacting tolerances with each sub-system fabricated under ideal circumstances. It soon amassed international recognition and praise as being the best that digital had to offer.

Then the STAX engineering team progressed onto another quest. Based upon the technical know how gained during the development of the DAC-X1t, we set out to create a compact digital to analog processor that featured the sonic advantages of our reference model. Yet it would be compact in size and sell for only a fraction of the price of the DAC-X1t. Hence we set out to create the DAC-TALENT.

First we had to select a method of digital to analog conversion. Currently there are 3 major methods accepted for this process. They are;

1:Standard Over Sampling Digital Filter and Multi-Bit Digital to Analog Conversion.

2:Noise Shaping Sigma-Delta Bit Stream Digital to Analog Conversion.

3:Software Programable Digital Filter using Digital Signal Processing + Multi-Bbit Digital to Analog Conversion.

Each of these methods has both merits and demerits. As for the DAC X1t and the DAC-TALENT we selected a standard Over Sampling Digital Filter and Multi-Bit digital to analog conversion.

For the sake of sonic integrity each of the sub-systems and circuit stages are fabricated under ideal circumstances featuring "State of the Art" subcomponents.