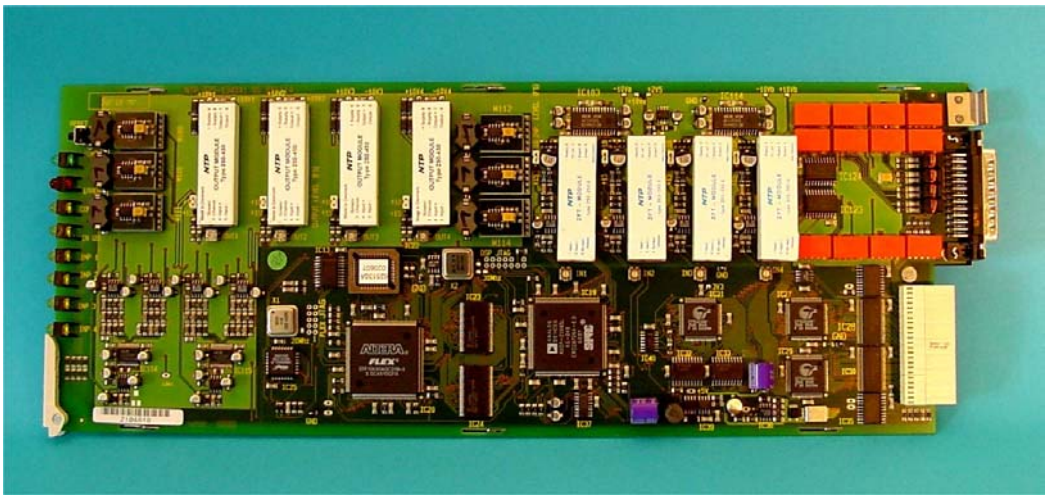
NTP TECHNOLOGY A/S

625 Digital Switching System
Analogue I/O Card 625-130A



General Description.

The 625-130A Analogue I/O card is part of the 32-bit TDM Switching system type 625.
Each card is equipped with 4 A/D and 4 A/D converters, 24 bit resolution, 48kHz sampling rate and 128x over sampling.
The card has balanced and isolated inputs and outputs. The isolation is obtained by means of an unique design, based on the NTP input modules called ZFT (Zero Field Transformer), which ensures earth free and balanced inputs. The output stage is, in principle, made like the input stages, i.e. as a ZFT-module ensuring isolated outputs.
The full scale reference level is selectable +15dBu or +18dBu. Other levels on request.
The card is equipped with relay contacts in order to connect one stereo output at a time, to the real output monitor bus.

The 625-130A card is equipped with DSP power for making the following functions available; Level adjustment, mixing, summing (Stereo to Mono), modulation detection, phase shift, delay and various filter functions etc.

Specifications:

Input	
Number of inputs (mono)	4
Resolution	24Bit
Full scale reference level	+15 or +18dBu
Input impedance Bal. Floating	10kΩ
Input Common Mode rejection 15kHz	> 60dB
Frequency response (ref. 1kHz)	
20Hz – 20kHz	±0,15dB
Linearity (ref. 1kHz)	
0dBFS – > -80dBFS	±0,1dB
-80dBFS – > -100dBFS	±0,3dB
-100dBFS – > -120dBFS	±2,0dB
Group Delay related to 1kHz	
20Hz – 20kHz	±5µsec
Dynamic range (-60dB at 1kHz,	
Measured with band pass filter)	>106dB
Channel separation between any	
Inputs (20Hz – 20kHz)	>100 dB
Input noise (+18dBu system)	
RMS (22Hz – 22kHz)	<-106dBFS

Output	
Number of outputs (mono)	4
Resolution	24Bit
Output impedance balanced floating	< 40Ω
Minimum load impedance	
(+18dBu max.)	300Ω
Output Common Mode rejection 15kHz	>60 dB
Output Asymmetrical	>35 dB
Full scale reference level	+15 to +18dBu
Frequency response (ref. 1kHz)	
20Hz – 20kHz	±0,15dB
Linearity (ref. 1kHz)	
0dBFS to –100dBFS	±0,1dB
-100dBFS to –120dBFS	±2,0dB
Group delay related to 1kHz	
20Hz – 20 kHz	±2,5µsec
Dynamic range (-60dB at 1kHz,	
Measured with band pass filter)	>106dB
Channel separation between any	
Output channel (20Hz – 20kHz)	>100dB
Output noise (+18dBu system)	
RMS (22Hz - 22kHz)	>106dBFS

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