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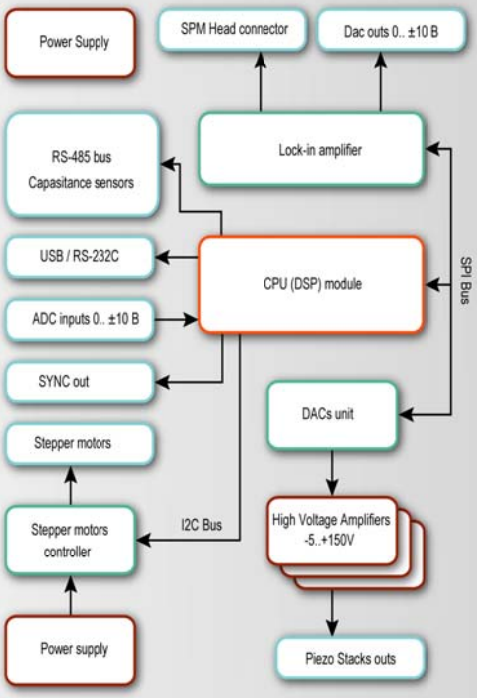
EG3000 – Fully functional SPM/piezostage controller

Electronic controller **EG-3000** is designed to control SPM or scanning confocal microscope. Controller provides data acquisition from internal sensors and external devices, applies control voltage to scanners piezoelectric actuators. All obtained information is transferred to PC workstation for visualization and processing.

Electronic circuits diagram:



EG 1000 – Piezo Stage controller

Electronic controller EG-1000 is designed to control piezo positioner, such as scanning stage **NPS20020Z** and one-coordinate slip **NPSZ**

Software:

Basic Nspec software, SDK for **Windows, Linux, Mac OS, Android** for Tablet PC.

Data:

Model	EG3061	EG1061
CPU, Double core	300 Mhz; 32 bit; float. point. RISC	300 Mhz; 32 bit; float. point. RISC
PC Interface	USB 3.0	USB 3.0
High - voltage outputs		
Voltage range	-10..150 V	-10..150 V
Noise	< 5 ppm.	< 5 ppm.
Number of channels max	9	3
DACs resolution	18 bit	18 bit
Stepper motors control unit		
Number of channels	4	no
Power supply	24V, 3A	no
Microstepping mode support	1/16 step	no
Lock-in amplifier		
Number of channels	2	no
Preamplifier gain	1-100	no
Input voltage range	±10 V	no
High speed (100MHz) ADCes resolution	16 bit	no
Signals Band	0-5 MHz	no
Frequency range of main oscillator	10 Hz – 5 MHz	no
Output voltage amplitude	10 mV-10 V	no
Main oscillator stability	< 5 ppm	no
Extra DAC/ADC module		Optional
Number of ADC channels	2	2
Voltage range	±10 V	±10 V
ADC resolution	18 bit	18 bit
Number of DAC channels	2	2
Number of ADC channels	±10 V	±10 V
ADC resolution	18 bit	18 bit

Ratis stage