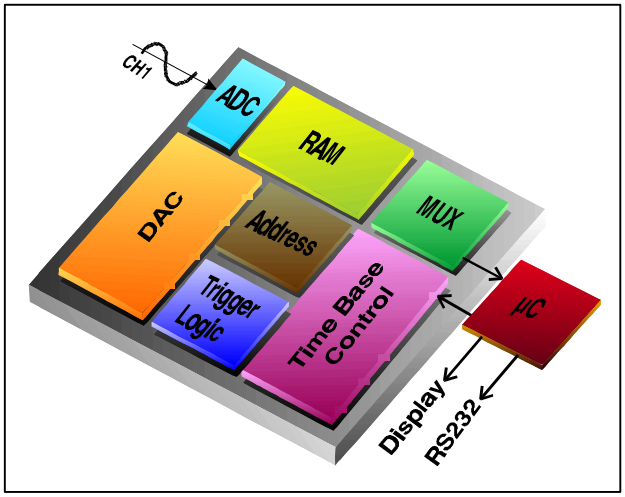
Zentrum Mikroelektronik Dresden

Integrierte Innovation

SCOPE IC

ZM407



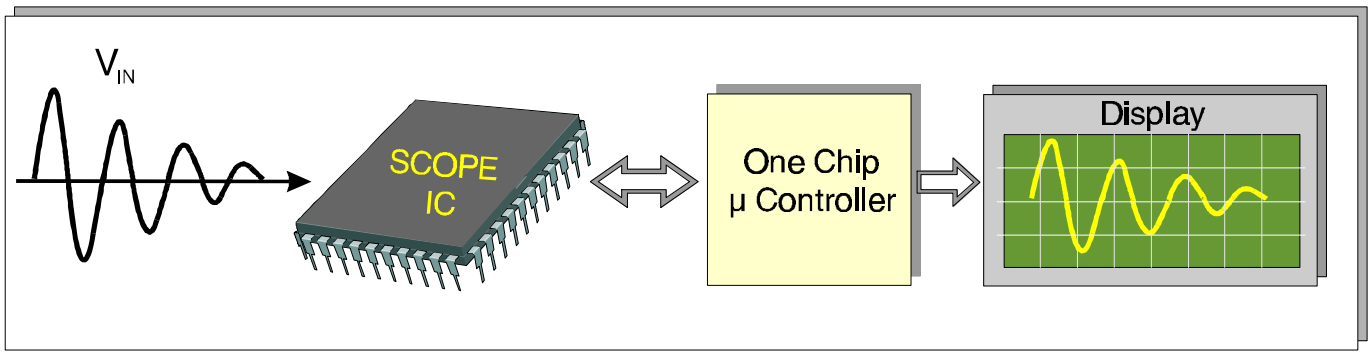
The SCOPE IC has been developed for visualization of electrical signals. The function principle of a one-channel storage oscilloscope and a minimum of external wiring permit both use in smallest measuring devices for service and test field and placement near the front panels in operator consoles and switch cabinets.

Highlights

- A/D conversion with 6-bit resolutionen
- Time base programmable from 50ns..3,27ms (at 20 MHz CLK)
- Trigger Modes: Auto, Internal+ /-, External + /-
- 5 discrete trigger levels
- Internal SRAM for 128 values
- Input Range ± 0.5V
- Shift of base line by adjustable control voltage
- Single supply 5 Volts
- Power Down
- Package PLCC44
- Technology CMOS C4A 1,2µm

Function

After loading of the parameters of time basis, trigger level and trigger mode into the control registers, the recording is started as soon as the trigger condition occurs. It ends when 128 data words have been written from the A/D converter into the internal SRAM. An externally connected microcontroller can read the stored data and prepare it for an LC display or for transfer via an interface.



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