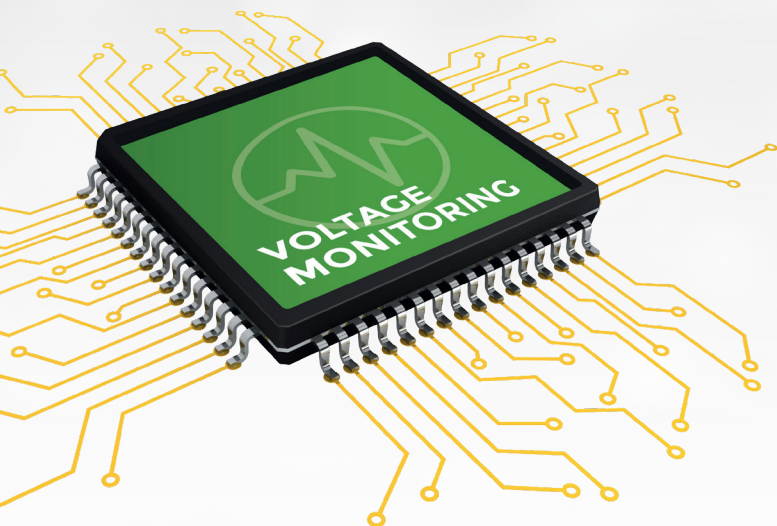


# Moortec Embedded Voltage Supply Monitor IP

Moortec Semiconductor provides embedded voltage supply domain monitor IP for your System on Chip (SoC) at 28nm and FinFET.



## Features:

- Accurately measures core supply domain voltages
- High accuracy
- Measurement of supply ranges up to 1.5V
- Digital interface for simplified chip integration
- Multiple supply domain monitoring with single IP instance - 16 channels
- Uses standard digital process requiring no extra process layers
- Low power operation
- Small size

## Deliverables:

- GDSII
- LEF (Abstract) view
- Liberty timing files
- LVS netlist
- Verilog model

## Applications:

Monitor multiple core supply domains to:

- Raise low voltage supply alarms for logic circuits
- Enable Dynamic Voltage Scaling (DVS) Schemes
- Measure on-chip IR drops
- Provide real-time supply data
- Enable hacking detection and protection
- Monitoring of up to 16 supply domains per IP instance

## Silicon characterisation and qualification:

- Stress based JEDEC HTOL testing
- Accurately measures device supplies during characterisation

## Interfacing options:

- AMBA APB interface available
- IEEE IP1500 interface available

## Digital interface provides:

- Simplified integration with no shielded analogue signals to route
- Easily addressable sensor instances
- Multiple monitor instances supported on a single chip

## Available on:

- TSMC
- Global Foundries
- SMIC
- UMC

