On-Board Controller ASIC
(OBC- V2.3)

| SCL Part No. | **SC1229-0** |

PRODUCT DESCRIPTION:

OBC-2.3 ASIC Architecture is based on 8-bit embedded micro-controller soft core (DW8051). The 8051 is interfaced with peripheral modules through Special Function Register (SFR) or Memory Bus.

ASIC has 32-bit Floating Point Coprocessor (IEEE 754 compatible) and total 6 UARTs (1-RS422, 3-CMOS, 2-RS485)

FEATURES:

- 8-bit embedded micro-controller soft core
- Single 3.3 V Supply Operation
- 24 MHz Operating Frequency
- Quiescent Supply Current < 10 mA
- Operating Power < 1 W
- Operating Temperature -55ºC to 125ºC
- 256 pin Ceramic Quad Flat Package
- On-chip SRAM: 1024 x 8 bits
- ADC (Delta Sigma ADC with 8 channel MUX)
- SCL's 180nm CMOS Technology

Functional Block Diagram