



# **CISSOID**

## **High Temperature Electronics**

CISSOID is the leader in high temperature semiconductor solutions, delivering standard products and custom solutions for power management, power conversion and signal conditioning in extreme temperature and harsh environments. CISSOID provides high reliability products guaranteed from  $-55^{\circ}\text{C}$  to  $+225^{\circ}\text{C}$  and commonly used outside that range, from cryogenic lows to upper extremes.

Whether the ambient temperature is low but the power dissipation heats up the chips, or in high temperature environments, CISSOID products enable energy, weight and cost savings in lighter, cooling-free and more compact electronic systems. They are used in mission-critical systems as well as in applications requiring long term reliability.



- CISSOID provides semiconductor solutions for High Temperature
- Power conversion** : DC-DC converters, Inverters, Motor Drivers (including SiC, IGBT, FET)
- Sensor Interface**: Operational Amplifier, A-D conversion, ...
- Basic building blocks**: Linear voltage regulators, A-to-D converter, Amplifier, Xtal Clock Generator, Logic Gates, Power MOSFETs,...
- Telemetry & RFID solutions**

CISSOID supplies leaders in the **Oil & Gas, Aeronautics, Industrial and Automotive** markets.

CISSOID STANDARD PRODUCTS

Power Supply

STAR

HELIOS

Linear Voltage Regulators



POLARIS & RUBY  
Voltage Reference



VOLCANO

DC-DC CONVERTERS

- STROMBOLI®
- EREBUS
- VESUVIO®
- ETNA



Driver

TITAN

HYPERION

Half Bridge Driver

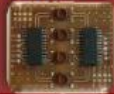


THEMIS-ATLAS  
SiC Power Driver



RHEA

Isolated Transceiver



PLANET

TRANSISTORS  
AND SWITCHES

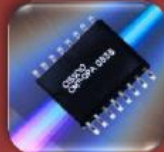


Amplifier

GEMSTONE

TURQUOISE

Quad Op Amp



RUBY

Triple OpAmp  
+ VRef



Mixed Signal

RIVER

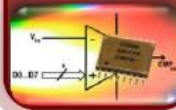
AMAZON

10-bit ADC



NILE

8-bit  
Comparator



Time

PULSAR

555 TIMER



CLOCK  
GENERATOR



Logic  
Gates

GALAXY

74XX  
FAMILY



- Quad 2-Inputs NAND
- Hex Inverter
- Quad 2-Inputs AND
- Quad 2-Inputs OR
- Quad 2-Inputs XOR
- Quad 2-Inputs NOR
- Dual D-Flip-Flop
- Quad 2-input NAND
- Schmitt Trigger

The outstanding reliability of CISSOID products comes from 25 years of experience in development and manufacturing of high temperature, high reliability semiconductor products. From design to simulation, from wafer process to assembly techniques, from characterization to thousands of hours life tests, CISSOID products benefit from the sharpest know-how in every step of the manufacturing flow targeting extreme temperature applications in harsh environment. High temperature semiconductor is our core business.



Contact NAC's Engineers for more information on CISSOID and other Hi-Rel/High-Temp Product Lines.

1-866-651-2901 or [techhelp@nacsemi.com](mailto:techhelp@nacsemi.com)