April 7, 2011 – Clare, Inc., a subsidiary of IXYS Corporation (NASDAQ: IXYS), today announced the availability of the CPC7514Z Quad High-Voltage Isolated Analog Switch Array for use in industrial controls, instrumentation, automatic test equipment and telecom applications. The CPC7514Z ICs feature four independently controlled, 320V bidirectional normally open (1-Form-A) relays actuated by latched TTL logic-level control signals. The monolithic silicon, which features high voltage DMOS structures and low voltage CMOS circuitry, is biased by a 3.3V power supply eliminating the requirement for external high-voltage supplies for proper operation. Switch-output to logic-input isolation is +/- 320V.

Designed to provide flexible single-ended or differential access to high voltage networks, the CPC7514Z may also be configured as two sets of matched pair- switches for improved differential performance. The switch pairs have an on-resistance matching specification of 0.8 Ohm maximum over the industrial temperature range of -40 to +85 degrees Celsius.

The individual switches have active current-limiting protection for fault events which limits the low frequency currents to 200mA. Under serious high-power fault conditions, which may raise the IC junction temperature, a thermal shutdown protection feature is provided. Between the initial current-limit and the thermal-shutdown events, a secondary, low-level, current-limit mode is provided to limit the power dissipation of the switches. Protection continues until the fault is removed. These features offer robust circuit protection in adverse application environments.

These switch arrays are fabricated using Clare’s bonded-wafer, silicon-on-insulator, BCDMOS process with trench isolation. Clare’s BCDMOS IC process has been used for many years in central office telecom equipment requiring long operational life (17+ years). Clare’s integrated Line Card Access Switch (LCAS) ICs which are fabricated in the same BCDMOS process have replaced many electromechanical 2-Form-C relays, enabling higher density line card designs.

In addition to telecom, the CPC7514Z may be used as four normally open relays in automatic test equipment (ATE), industrial controls, battery monitoring/charging equipment and instrumentation applications. The device may also interface directly with 110V rms AC in switch applications replacing banks of electromechanical relays (EMRs) and driver circuitry for enhanced system integration. Many applications will benefit from the elimination of a costly DC/DC converter block that is generally incorporated to bias the external EMRs.

For additional information about the CPC7514 Quad Switch Array, visit the web page: CPC7514: Quad High Voltage Isolated Analog Switch Array

CPC7514 Data Sheet Link.

Pricing and Availability
The CPC7514Z is available in a 20-pin SOIC package, and is available in production quantities. Pricing for OEM quantities of 10KU is $3.99.

For additional information, please contact your local sales representative: http://www.clare.com/home/pages.nsf/locate.rep

About Clare and IXYS, Inc.
Clare, Inc., a leader in the design and manufacture of solid-state relays and high voltage integrated circuits, is a wholly owned subsidiary of IXYS Corporation. IXYS Corporation develops and markets primarily high performance power semiconductor devices that are used in controlling and converting electrical power efficiently in power systems for the telecommunication and internet infrastructure, motor drives, medical systems and transportation. IXYS also serves its markets with a combination of digital and analog integrated circuits. Additional information about Clare, Zilog, and IXYS may be found at www.clare.com, www.ixys.com, and www.zilog.com.

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