

CCII Systems (Pty) Ltd (C²I² Systems) develops and manufactures ruggedised electronic board-level I/O products, software and systems for the military, aerospace and industrial control markets.

Board-Level I/O Products

C²I² Systems is a leading supplier of ruggedised board-level I/O products and offers an extensive range of functional I/O types, formfactors, environmental grades and real-time software drivers. C²I² Systems's board-level products are intrinsically flexible and offer both high performance and a mix-and-match combinability for any specific user application, thus offering a highly degree of responsiveness in matching precise customer-specific requirements.

Multi-billion dollar US and NATO military systems and programmes rely on some of C²I² Systems's PMC adapter products which have also found extensive deployment in a range of European, Scandinavian, Australian, Asian and South African military programmes.

Software Engineering

C²I² Systems also have a high capability software engineering capacity: right from analysis of high-level user requirements, specification, design, development, testing, documentation, integration, qualification and through-life support (training, upgradeability, software testbeds, etc.). While offering the full spectrum, C²I² Systems's experience allows them to offer tailored solutions to meet the optimised demands of the customer, the system and the budget.

Systems

At systems level C²I² Systems offers, for example, a Helicopter Take-Off and Landing System (HTLS) (which can be used in a stand-alone configuration or integrated within a surface combat suite), a Tracking Radar Console (TRC), a Navigation Distribution System (NDS) and a state-of-the art, SAFENET-compatible Information Management System (IMS). The IMS can be based on FDDI, Fibre Channel, Gigabit Ethernet or comparable network technology.

Industrial Participation

Currently, substantial opportunities exist for both foreign and local participants in South Africa's defence force refurbishment endeavours, as well as in its obligatory Defence Industrial Participation (DIP) and National Industrial Participation (DIP) programmes. C²I² Systems's high-end engineering capabilities, experience and products make it an ideal value-added local technology partner.

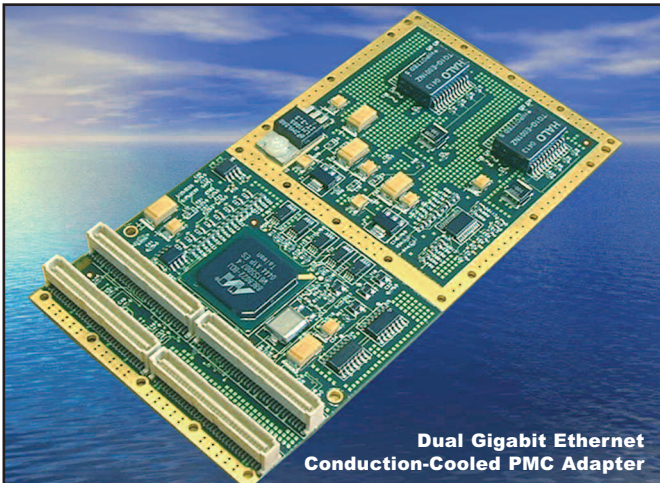
See page XX for more information.

**Force Multiplication
through
Information Technology[®]**

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Board-Level I/O Products

C²I² Systems's adapters are available in PMC, PC/104 Plus and PCI formfactors offering maximum compatibility, performance, flexibility and cost-effectiveness.

The PMC adapters are available in a conduction-cooled (-40°C to +85°C) version and three air-cooled versions: ruggedised (-40°C to +85°C), industrial (-15°C to +75°C) and commercial (0°C to +55°C). The PC/104 Plus adapters are available in ruggedised, industrial and commercial air-cooled versions, while the PCI adapters are available in industrial and commercial air-cooled versions.

8-Channel High-Speed Serial I/O

Intelligent I/O adapter offering 8 channels of simultaneous, high-speed (>16 Mbps), bi-directional serial communications plus 4 UART channels; a 4-channel version is also available.

Dual Gigabit Ethernet

Intelligent network adapter offering 2 channels of 10/100/1000 Mbps Ethernet with Redundant Link Management over copper or fibre media.

FDDI

Network adapter offering dual redundant 100 Mbps links over multimode fibre media or MLT-3 signalling over copper UTP media (CDDI).

Dual 2 Gbps Fibre Channel

Network adapter offering 2 channels of 2 Gbps Fibre Channel on short-haul or long-haul fibre media or shielded, twisted-pair copper media. 1 Gbps copper version offers active I/O protection.

E1/T1 and E3/T3 Telecomms

Highly flexible telecomms adapter offering up to 8 channels of E1/T1, or 2 channels of E3/T3; plus 2 channels of simultaneous, high-speed, bi-directional RS422 serial communications (>10 Mbps) and 2 channels of simultaneous, bi-directional RS232 UART serial communications.

MIL-STD-1553B

Bus adapter offering dual redundant 1 Mbps MIL-STD-1553B communications with Bus Controller, Bus Monitor and Remote Terminal functionality.

ARINC-429

Bus adapter offering dual redundant 1 Mbps ARINC-429 communications.

GPS

Adapter offering an integrated GPS receiver plus UART serial I/O.

Environmental Monitoring and Control

Adapter which monitors the health of a system's internal environment, including power supplies, temperatures, smoke detectors and cooling fan operations.

Vehicle Management and Monitoring

Adapter which monitors and reports the geographic position, movement parameters and internal health parameters of a moving vehicle by means of GPS and GSM/GPRS.