

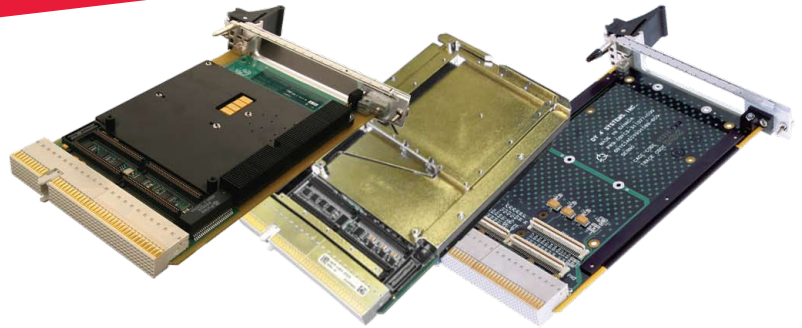
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General Dynamics  
Land Systems Inc.

Fact Sheet



# PICMG 2.3 COMPLIANT MODULES

## DCP-1201P, SCP/DCP-124P & SCP/DCP-201 PMC Interoperability



### PICMG 2.3 Compliant:

- ◆ Unshared 64-bits of PMC I/O
- ◆ Impedance matched I/O signal lengths
- ◆ Supports full PMC functionality

Curtiss-Wright offers three CompactPCI-based modules that are fully compliant with PICMG 2.3 specifications; the DCP-1201P, SCP/DCP-124P and SCP/DCP-201. Because the PICMG 2.3 spec demands PMC site pin-for-pin compatibility for complete compliance, all three of these compliant Curtiss-Wright modules interoperate seamlessly with standard PMC cards.

### PICMG 2.3

The PICMG 2.3 standard defines user I/O pin mappings for PMC card on CompactPCI boards; the standard outlines PMC I/O mapping from IEEE 1386 PMC sites on a 3U CompactPCI backplane. With a PICMG 2.3 compatible pin out, boards provide a full 64-bits of PMC I/O on the P2 as controlled impedance matched length signals. The DCP-1201P, SCP/DCP-124P and SCP/DCP-201 modules all comply with this standard and each offer a full-speed on-board PMC site with unshared 64-bits of PMC I/O.

Learn More

Sales Info: [sales.cwembedded.com](mailto:sales.cwembedded.com)

Sales Email: [sales@cwembedded.com](mailto:sales@cwembedded.com)

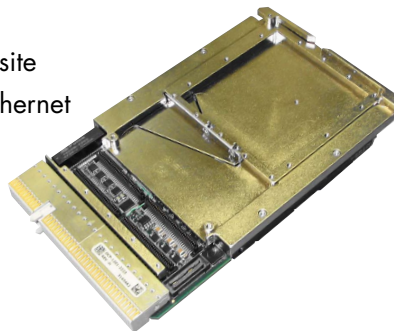
**CURTISS  
WRIGHT** Controls  
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## Product Features

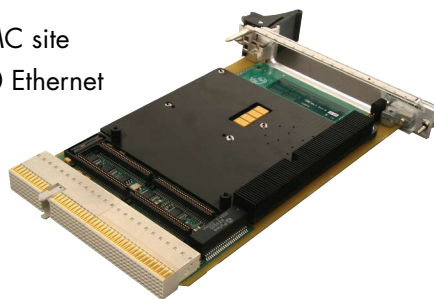
### DCP-1201P

- ◆ Intel® Core™2 Duo
  - (2) Cores @ 1.5GHz
- ◆ Peripheral only
- ◆ (1) PICMG 2.3 PMC site
- ◆ (2) 10/100/1000 Ethernet
- ◆ (2) RS-232
- ◆ (4) RS-422
- ◆ (1) SATA
- ◆ (7) GPIO
- ◆ (3) USB 2.0



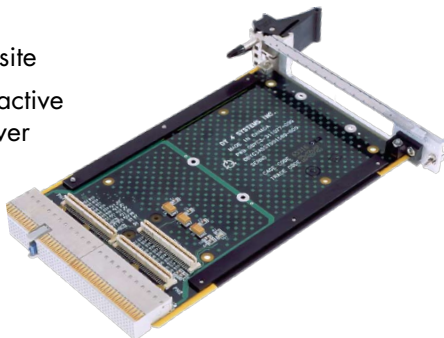
### SCP/DCP-124P

- ◆ Freescale® Power Architecture™ MPC7448 processor
- ◆ Peripheral only
- ◆ (1) PICMG 2.3 PMC site
- ◆ (2) 10/100/1000 Ethernet
- ◆ (1) RS-232
- ◆ (2) RS-232/422/485
- ◆ (8) TTL Discrettes
- ◆ (1) USB 2.0



### SCP/DCP-201

- ◆ Peripheral only
- ◆ (1) PICMG 2.3 PMC site
- ◆ Carrier card with no active components – no power consumption
- ◆ One 64-bit PMC on an independent PCI bus
  - 100MHz PCI-X capable
  - Optimized cooling of conduction-cooled PMCs
  - Full 64-bits of I/O routed to P2 as controlled impedance matched length signals



## Fully Rugged & Conduction-cooled

As fully rugged conduction-cooled products, the DCP-1201P, SCP/DCP-124P and SCP/DCP-201 are fitted with enhanced heat dissipation frames that allow PMC modules to operate in extreme environments pertaining to temperature, shock and vibration, and humidity. These rugged versions are designed and manufactured according to our L200 environmental standards and are suitable as the production products for rugged military or aerospace platforms.

Full ruggedization is accomplished through specially designed enhanced thermal frames we developed. These enhanced thermal frames serve to conduct heat away from hot spots to enable the onboard PMCs to function at their highest capability with regards to temperature. They also serve to resist the high levels of shock and vibration typically found in combat aircraft or space based vehicles. With these enhanced thermal frames, even hot running PMC modules can operate at their full potential under appropriate thermal management. A specially designed conformal coat also protects the L200 boards and their on-board PMCs while operating in humid or high erosion conditions, such as salt/fog.