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Find the *Novanta Inc. / Dynamics Research VME-GEM III* at our website: *Click HERE*

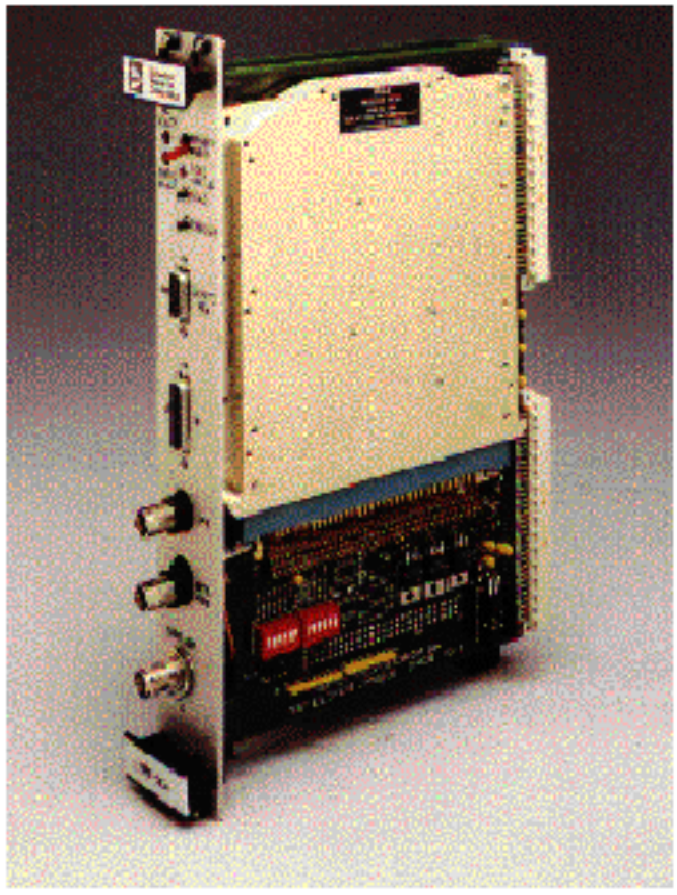
VME-GEM III
(Versa Module Eurocard – GPS Embedded Module)

VME-GEM III

(Versa Module Eurocard – GPS Embedded Module)

This product combines the latest proven military GPS receiver from Rockwell Collins Avionics & Communications Division (CACD) with VME technology developed by Dynamics Research Corporation (DRC) into a single 6U double-slot VMEbus product.

DRC has integrated the GEM III secure P-code embedded GPS receiver from Rockwell CACD with the DRC Universal Interface Board (UIB-VME) offering the latest in VME interface technology. This integrated product, VME-GEM, makes available to the GPS receiver community a fully qualified GPS receiver available in a VME interface. The VME-GEM III can operate aided by INS or Doppler or in stand-alone unaided mode. The primary data interface is the Dual Port RAM which is mapped over the VMEbus and provides data according to ICD-GPS-059. Standard Instrumentation Port (RS-232/RS-422) is also included with standardizing messages given by ICD-GPS-104.



Integration of the VME-GEM in the VMEbus with the well-established VMEbus community will allow for rapid integration. This product merges the latest military qualified GPS receiver with the latest VME64 IEEE standard bus. In this product, the GEM module itself is a field replaceable embedded unit. The replaceable GEM gives this VME product a "free ride" with technology advancements embedded in the GEM product line from Rockwell CACD.

DRC® DYNAMICS RESEARCH CORPORATION

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VME-GEM III

(Versa Module Eurocard – GPS Embedded Module)



System Features:

- C/A, P(Y) code
- L1/L2 frequency (5 channels)
- RF Antenna Interface with disabling power to preamp
- Full VME64 IEEE compliant bus interface (ICD-GPS-059)
- VME 6U double slot foot print
- Instrumentation Port with standard RS-422/RS-232 serial interfaces(ICD-GPS-150)
- HAVE QUICK (ICD-GPS-060)
- 1 PPS In, 1 PPS Out (ICD-GPS-060)
- Standard KYK-13/KOI-18 Crypto Port
- Full SA/AS capability
- JPO-certified tamper-proof PPS-SM
- Low power requirement
- Mature Collins GPS software
- Proven integration with INS or Doppler
- Capable of stand-alone GPS operation

Specifications subject to change without notice.

International Distribution Limited

For additional information, contact:
Dynamics Research Corporation
Test Equipment Division
93 Border Street, West Newton, Massachusetts 02165
U.S.: (800) 522-4321, extension #15# and ask for Embedded Projects Manager
Outside U.S.: (617) 965-1346
Fax: (617) 244-7715

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