



PROTOTYPE MODULES

RF Prototyping Module Model 7065



- For RF and Microwave Applications In One, Two or Three Slot Package
- Message-based Interface
- Fully De-coupled and Filtered Power and Interface Lines
- Shielded RF Compartment
- Adds High-performance Custom Capability to any C-size Chassis
- Excellent Microphonic and Vibration Performance

Add Customized RF and Microwave Performance to Your VXIbus Systems

The 7065 prototyping card allows the incorporation of high performance RF and microwave instruments, systems and subsystems onto the VXIbus. The 7065 features a powerful on-card message-based VXIbus interface. This eliminates the need for product developers to invest resources in the design of a proprietary interface. The 7065 permits manufacturers of virtually any high-performance instrument to quickly adapt their products to the VXIbus format.

Shielded RF Compartment Eliminates Additional Screening Requirements

The carefully engineered RF compartment ensures an EMI sealed cavity and highly efficient heat dissipation. Custom designs can be implemented on the card without additional screening. The shielded compartment, power line filtering and interface de-coupling enable this card to be used in any chassis. Performance specifications are not degraded by the chassis.

Microphonic and Vibrational Immunity

The rigid milled aluminum construction of the 7065 provides excellent immunity to vibrational and microphonic effects.

Power and Interface Lines Are De-coupled and Filtered

Twenty-six de-filtered input/output control lines, as well as a number of desirable power supply voltages, are fed into the shielded compartment. Additional smoothing, filtering, regulation and de-coupling may be added as required.

7065 Specifications

PROTOTYPING FEATURES

Buffered I/O

24 Channels: Bi-directional (tri-state)

VXIbus Interrupt

Rotary Switch Selectable

Breadboarding Space

47in²

RF Compartment

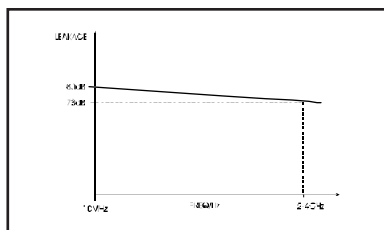
Screened, either single, double (Opt. 01) or triple (Opt. 03) wide.

Supplies to RF Compartment

+24 +15 +5 -5.2 -15 -24
1A* 1A 1A 1A 1A 1A*

*less +15V supply current

RF Leakage



OPTIONAL FEATURES

Option 01: Double Wide RF Compartment

Option 02: Extender Cable
Extends RF Compartment for benchtop access.

Option 03: Triple Wide RF Compartment

VXIbus INTERFACE DATA

(Message based, VXIbus Rev. 1.3 compliant)

Software

IEEE 488.2 Compliant

Backplane Signal Support

TTLTRG0-7: Bi-directional
Local Bus: Expansion to 1 Slave Module

Status Lights

Red: Sysfail

Cooling (single slot)

21° C Rise with 40W Dissipation in RF Compartment.

ENVIRONMENTAL DATA

Temperature

Operating: 0°C to 50°C

Weight

Single Wide: 4.5 lb (2.0 kg)
Double Wide: 5.0 lb (2.3 kg)
Triple Wide: 5.2 lb (2.4 kg)

EMI

Meets MIL-STD-461C CEO3/REO3

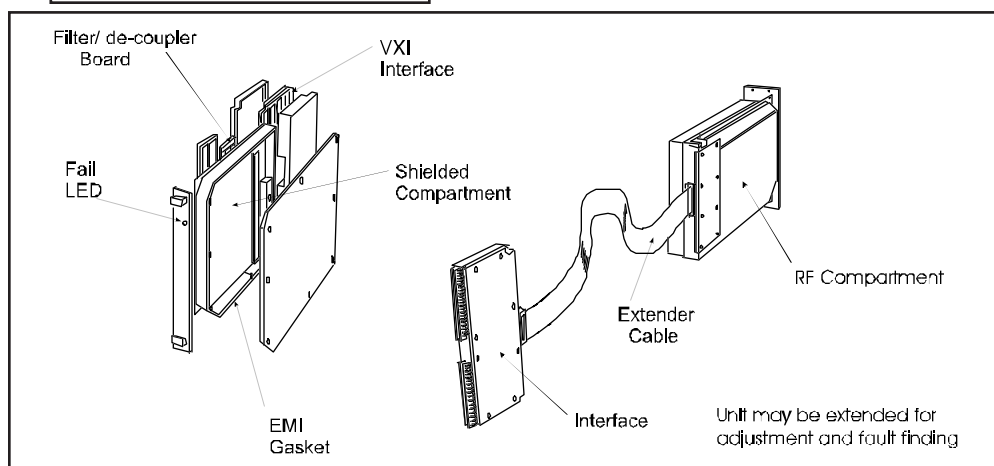
EMC (Council Directive 89/336/EEC)

Meets CE requirement but dependent upon added circuitry.

Safety (Low Voltage Directive 73/23/EEC)

EN6010-1, IEC1010-1, UL3111-1, CSA 22.2#1010

CE The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions, Immunity to Electromagnetic Disturbances and complies with European electrical safety standards.



ORDERING INFORMATION

Model	Description	Part Number
7065	Single-slot RF Prototype Module with Interface	R-7065
7065/01	Double-slot RF Prototype Module with Interface	R-7065/01
7065/03	Triple-slot RF Prototype Module with Interface	R-7065/03
Opt. 02	Extender Cable	R-02 Cable



<http://www.racalinst.com>

