Motorola FRN1420A

Complete Product Information | decision matrix

Motorola FRN1420A is identified in the Motorola price book as a 16-discrete-input MOSCAD module for dry-contact status acquisition in an RTU.

02 Configuration and interface matrix

Exact catalog identity	16 discrete input module for MOSCAD
Input purpose	Dry-contact status sensing in 16DI family
Counter capability	Two dedicated high-speed inputs in 16DI family
Low-speed count	Application-controlled use of digital inputs in 16DI family
Event recording	Time tagging in 16DI family
Isolation	Optically isolated input paths in 16DI family
Module connection	Plugs into MOSCAD RTU motherboard
Field wiring	Removable front connectors in 16DI family
Status indication	Input and module diagnostics in 16DI family

03 Application roles and compatibility

Equipment status

Map switches or relay contacts to the RTU point database for operating-state monitoring.

Alarm detection

Use contact changes as application inputs for approved alarm or interlock logic.

Event history

Where the RTU configuration supports it, record time-tagged input changes for sequence review.

Pulse count duties

Apply supported counter channels only after confirming the exact A-suffix module and field pulse characteristics.

Practical compatibility boundary

The Motorola price book identifies exact FRN1420A as a 16-discrete-input MOSCAD module. The related Motorola 16DI specification uses base field-install code FRN1420; detailed functions are stated as platform-family information pending the installed A-suffix revision.

04 Product precautions

Power isolation

De-energize the RTU and isolate field circuits before removing the module.

Revision match

Compare the A-suffix label, connector layout and motherboard position with the installed unit.

Dry-contact boundary

Verify each field device presents the specified contact interface rather than an unapproved powered signal.

Common wiring

Trace input commons and removable terminal blocks before moving conductors.

05 Offered unit and lifecycle

Condition: New, original product. Confirm the complete FRN1420A marking, terminal block and RTU motherboard compatibility in the offer; field contacts and application program are separate.

Lifecycle status

FRN1420A: A current manufacturing or support phase for this complete marking is unconfirmed. For RTU maintenance, preserve the A-suffix module marking, terminal schedule and application point map. Apter Power availability is separate from the manufacturer lifecycle phase.

Engineering decisions

How should FRN1420A be matched to a MOSCAD RTU slot?	Compare the exact A-suffix marking, motherboard position, terminal-block style and installed RTU configuration before moving the module.
What signal should be connected to FRN1420A inputs?	The catalog identifies a discrete-input module and the related 16DI architecture uses dry-contact closures. Check the exact unit wiring before applying field power.
Why can an FRN1420A input LED change without a host alarm?	The physical contact can be seen by the module while the RTU point map, scan or application logic is wrong. Trace the point from terminal through CPU to the alarm rule.
How should shared commons be handled when replacing FRN1420A?	Document each conductor and common return by terminal; transfer the block only after the A-suffix connector assignment is verified.
When may FRN1420A be used for pulse counting?	The related 16DI platform supports counter functions, but the exact A-suffix hardware and RTU program must be checked against pulse rate and channel wiring first.

Discuss the fitted revision.
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Source: Motorola MOSCAD 16DI Digital Input Module specification, R3-11-83; Motorola 2005 U.S. Price Book, FRN1420A entry

Other Motorola references

Motorola MVME133A-20

Motorola MVME172-333

Motorola MVME2304 64-W5206C01B

Catalog navigation only; verify each model separately.