



Reliance Electric 57C413B

AutoMax Common Memory Module

Product scope

- Stores shared AutoMax configuration data in 128K bytes of battery-backed RAM.
- Arbitrates backplane access for racks containing multiple processors.
- Includes the documented watchdog, lithium battery and super-capacitor protection.
- Can provide user-definable common storage in an appropriate even-numbered slot.

Manufacturer source

Rockwell Automation / Reliance Electric Common Memory Module 57C413B and 57C423, AMAX-IN041.

The enclosed record and retained manufacturer pages identify the exact product and explain its function, operating principle, application and critical matching requirements.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Reliance Electric 57C413B	

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Reliance Electric 57C413B

AutoMax Common Memory Module

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

Memory	128K bytes / 64K registers when used in slot 0
Primary position	Slot 0 in a rack with more than one processor
Core functions	Shared configuration storage, bus arbitration and system watchdog
Backup	Onboard lithium battery and super-capacitor
Minimum RAM retention	600 days with the documented battery condition
Additional storage mode	128K bytes in an even non-zero slot for user-definable common data
System current	+5 V at 1.05 A

Official references

- Rockwell Automation / Reliance Electric Common Memory Module 57C413B and 57C423, AMAX-IN041.
- Official source: https://literature.rockwellautomation.com/idc/groups/literature/documents/in/amax-in041_-en-p.pdf

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Purpose

The module provides shared data storage and bus coordination in AutoMax racks, especially where two or more processor modules operate together.

Operating principle

When installed in slot 0, it holds configuration information common to the processors and arbitrates their access to the rack bus. This removes shared configuration data from individual processor memory.

Watchdog and retention

A system watchdog supervises multi-processor operation. Battery-backed RAM retains the common database through a power interruption; the battery is not an uninterruptible operating supply.

Single-processor use

It may also be used in a single-processor rack to hold configuration data, or in another even slot as user-definable common storage. Application tasks and local variables are not stored in that auxiliary mode.

Replacement planning

Preserve the common-memory database, processor-slot arrangement and battery condition before exchange. Do not replace a 57C413B with another revision without confirming memory capacity, backup method and supported programming-executive version.

Common Memory Module

(M/N 57C413B)
(M/N 57C423)

Industrial CONTROLS

Instruction Manual J-3636-2



1.0 INTRODUCTION

The products described in this instruction manual are manufactured or distributed by Reliance Electric Industrial Company.

The Common Memory module (57C413B and 57C423) is required in slot 0 of a DCS 5000/AutoMax rack that contains more than one Processor module. The Common Memory module stores the configuration data that must be shared among Processors, such as definitions of physical I/O. This frees Processor module memory for application tasks. The Common Memory module also arbitrates the Processors' access to the bus.

The Common Memory module may also be placed in slot 0 of a single-Processor rack. As in the case above, the configuration data which normally resides on the Processor module in a single-Processor rack is stored on the Common Memory module. When the Common Memory module is placed in any even slot other than 0, it is used for user-definable data storage only. This mode is useful if you need to control explicitly the physical allocation of memory, e.g., to define consecutive registers for shaft register instructions. Note, however, that it is not possible to define arrays in this mode.

The module incorporates bus arbitration logic, a system watchdog for multi-processing, and battery-backed RAM for data storage. When used in slot 0, M/N 57C413B has 128K bytes (64K registers) of memory; M/N 57C423 has 256K bytes (128K registers) of memory. Both versions of the module make available 128K bytes only when used in any even slot other than 0. An on-board lithium battery and a super-capacitor protect the Common Memory module from power failures. Note that the battery backup is designed to maintain the contents of RAM only. It is not a source of uninterruptible power. Should the rack lose power, the on-board battery can maintain the contents of RAM for a minimum of 600 days.

This manual describes the functions and specifications of the module. It also includes a detailed overview of installation and servicing procedures, as well as examples of programming methods. Unless specifically noted otherwise, the information in this manual describes both the M/N 57C413B and M/N 57C423 Common Memory modules.

Related publications that may be of interest:

- J-3630 ReSource AutoMax PROGRAMMING
EXECUTIVE INSTRUCTION MANUAL
VERSION 1.0
- J-3649 AutoMax CONFIGURATION TASK MANUAL
- J-3650 AutoMax PROCESSOR MODULE INSTRUCTION
MANUAL
- J-3675 AutoMax ENHANCED BASIC LANGUAGE
INSTRUCTION MANUAL
- J-3676 AutoMax CONTROL BLOCK LANGUAGE
INSTRUCTION MANUAL
- J-3677 AutoMax LADDER LOGIC LANGUAGE
INSTRUCTION MANUAL

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