

57C443A

Remote I/O Scanner

Reliance Electric 57C443A is an AutoMax A-B Remote I/O Scanner module with scanner and adapter operating modes. It connects an AutoMax rack to approved Allen-Bradley remote I/O devices through the documented remote I/O link.

IDENTITY	VERIFIED VALUE
Manufacturer	Reliance Electric
Complete model	57C443A
Product role	Remote I/O Scanner
System family	AutoMax

Document scope

Exact identity, verified technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

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Technical Specifications

PARAMETER	VERIFIED VALUE
Product identity	57C443A
System	AutoMax
Function	A-B Remote I/O scanner with adapter mode
Operating modes	Scanner or adapter
Remote I/O racks in scanner mode	Up to 32
Supported rates	57.6, 115.2 and 230.4 kbit/s
Addressing	1/2-slot, 1-slot or 2-slot
Complementary addressing	Not supported

PARAMETER	VERIFIED VALUE
Rack sizes	Quarter, half, three-quarter or full rack
Discrete I/O	Supported
Analog I/O	Supported through documented block transfers
Block transfers	Up to 48
Adapter requests	Up to 48 block read or write requests
Cable type	Allen-Bradley 1770-CD or Belden 9463 twinaxial
Backplane interface	Dual-port memory
Backplane current	0.65 A at 5 V

Engineering boundary

Preserve the existing 57C443A product image and user-entered commercial fields. Verify the AutoMax rack, scanner or adapter mode, remote racks, baud rate, addressing and application configuration before service.

Functions and Applications

Dual operating modes

Runs as a remote I/O scanner or as an AutoMax adapter.

Multiple remote racks

Scans up to the documented 32 remote I/O racks.

Selectable network rate

Supports the three documented A-B remote I/O baud rates.

Block-transfer support

Transfers documented analog and specialty-module data through block reads and writes.

Common Applications

APPLICATION	ENGINEERING CONTEXT
AutoMax remote I/O scanner	Connects an AutoMax rack to documented A-B 1771, Flex, Block or SLC 500 remote I/O.
AutoMax adapter station	Presents configured AutoMax data as one or more remote racks to a host scanner.
Legacy network renewal	Restores a controlled remote I/O link while retaining rack, address and rate records.
Discrete and analog integration	Coordinates discrete image transfers and approved block-transfer modules.

Controlled acceptance duty

Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete 57C443A marking and installed firmware record.
2	Confirm whether the application uses scanner or adapter mode.
3	Record the remote rack, rack size, starting group and addressing method.
4	Preserve baud rate, cable, termination and network topology.
5	Do not enable complementary addressing; it is not supported.
6	Back up the AutoMax Programming Executive application and I/O definitions.
7	Verify every configured block-transfer request and target module.
8	Complete remote-rack, discrete, analog, diagnostic and fail-state tests before release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is Reliance Electric 57C443A?	57C443A is an AutoMax A-B Remote I/O Scanner module with scanner and adapter modes.
How many remote racks can Reliance Electric 57C443A scan?	The scanner mode supports up to 32 A-B remote I/O racks.
Which network rates support Reliance Electric 57C443A?	The selectable rates are 57.6, 115.2 and 230.4 kbit/s.
Which addressing methods support Reliance Electric 57C443A?	The documented methods are half-slot, one-slot and two-slot addressing.

Related Products

MODEL	APTER POWER PAGE
Reliance Electric GV3000E-AC005-AA-DBU-RFI	View Reliance Electric GV3000E-AC005-AA-DBU-RFI
Reliance Electric DCC53120 DCC2000	View Reliance Electric DCC53120 DCC2000
Reliance Electric DCC53120 DCC2102	View Reliance Electric DCC53120 DCC2102
Allen-Bradley 1747-SN	View Allen-Bradley 1747-SN

Model-Specific FAQ - Part 2

QUESTION	ANSWER
Does Reliance Electric 57C443A support complementary addressing?	No. The catalog states that complementary addressing is not supported.
How many block transfers support Reliance Electric 57C443A?	The scanner supports up to 48 configured block transfers.
Which cable supports Reliance Electric 57C443A?	The catalog specifies Allen-Bradley 1770-CD or Belden 9463 twinaxial cable.
What confirms Reliance Electric 57C443A commissioning?	Verify mode, rack map, rate, addressing, termination, discrete data, block transfers, diagnostics and fail-state behavior.

Related Products and Release

MODEL	APTER POWER PAGE
Allen-Bradley 1756-DHRIO	View Allen-Bradley 1756-DHRIO
Allen-Bradley 1784-PKTX	View Allen-Bradley 1784-PKTX
Allen-Bradley 1785-PFB	View Allen-Bradley 1785-PFB
GE IC670PBI001	View GE IC670PBI001

MANUFACTURER SOURCE RECORDS

1. Reliance Electric AutoMax Control Products Catalog, A-B Remote I/O Scanner Module section
2. Reliance Electric 57C443A selection and application data

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