56AMXN AutoMax Network and Reliance Electric Remote I/O

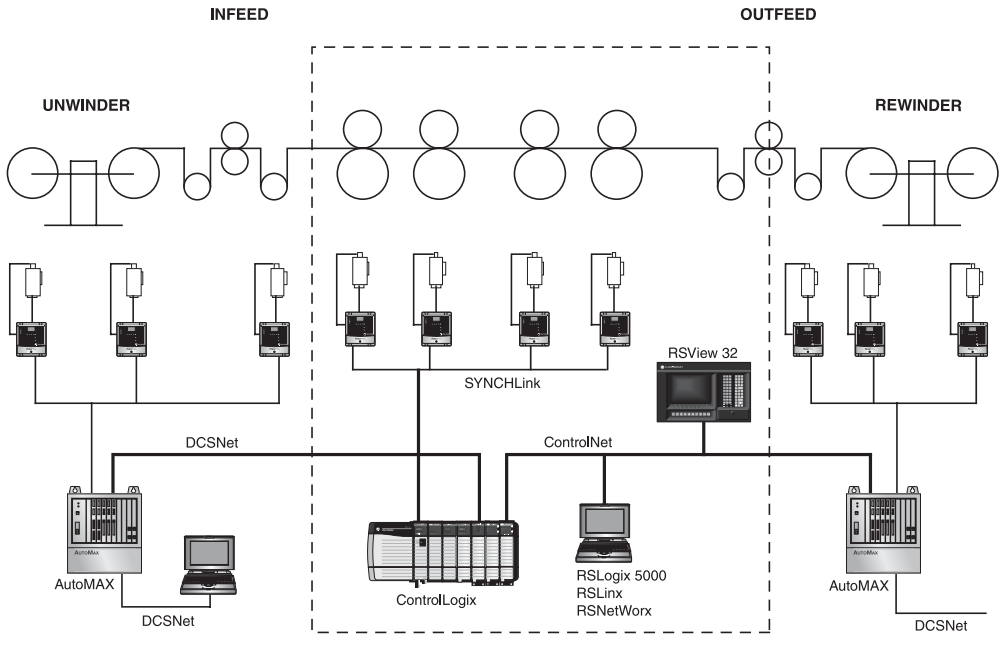
The 56AMXN module connects a ControlLogix system to an AutoMax DCS network or to an AutoMax Remote I/O network. The traditional Reliance Electric (RE) Systems solution is based on an AutoMax controller and architecture. DCSNet is the main communications, data, and control network or "backbone". RE RIO is the Remote I/O architecture to network devices such as I/O and MMI or HMI operator stations.

You configure the 56AMXN as a generic module. The module supports scheduled data of as many as 250 input words input, 248 output words, and 250 status words. The module supports RPIs from 0.2 to 750 ms.

As a:	The 56AMXN module:
DCSNet master	• scans up to 55 drops with 32 words in and 32 words out per drop • transmits 8 words of global broadcast data every 2.8ms • maintains standard drop 0 diagnostic counters
DCSNet slave	• acts as any drop number from 1 to 55, with drop depth from 1 to 55 ("active drops") • monitors input and output data on other drops on the network ("monitored drops")
RE remote I/O master	• scans up to 7 drops, with as many as 250 input words and 248 output words • maintains standard diagnostic counters

Cat. No.	Communication Networks and Supported Modes	Cable	Power Dissipation, Max.	Backplane Current (mA) at 5V	Backplane Current (mA) at 24V
56AMXN	DCS network: master or slave RE remote I/O network: master	Drop cable (612574-36R, 3ft long with 9-pin D-shell connectors) and passive tap (M/N 57C380, BNC connectors) connects the module to the network cable. For DCS, the network cable can be RG-59/U or RG-11/U. For remote I/O, the cable must be RG-59/U.	5.0 W	650 mA	75 mA

Certifications: UL, CSA (Class I, Division 2, Group A, B, C, D), CE



ControlLogix Controllers

Cat. No.	Memory			Power Dissipation, Max.	Thermal Dissipation, Max.	Backplane Current (mA) at 5V	Backplane Current (mA) at 24V
	Available User Memory (Kbytes)✞	I/O Memory❄	Nonvolatile Memory				
1756-L55M12	750 Kbytes	208 Kbytes	NA	5.6 W	19.1 BTU/hr	1230 mA	14 mA
1756-L55M13	1536 Kbytes	208 Kbytes	NA	5.6 W	19.1 BTU/hr	1230 mA	14 mA
1756-L55M14	3584 Kbytes	208 Kbytes	NA	5.7 W	19.4 BTU/hr	1250 mA	14 mA
1756-L55M16	7680 Kbytes♣ ≤ 3584 Mbytes of data	208 Kbytes	NA	6.3 W	21.5 BTU/hr	1480 mA	14 mA
1756-L55M22	750 Kbytes	208 Kbytes	750 Kbytes	5.6 W	19.1 BTU/hr	1230 mA	14 mA
1756-L55M23	1536 Kbytes	208 Kbytes	1.5 Mbytes	5.6 W	19.1 BTU/hr	1230 mA	14 mA
1756-L55M24	3584 Kbytes	208 Kbytes	3.5 Mbytes	5.7 W	19.4 BTU/hr	1250 mA	14 mA
1756-L61	2048 Kbytes	478 Kbytes	64 Mbytes CompactFlash↗	3.5 W	11.9 BTU/hr	1200 mA	14 mA
1756-L62	4096 Kbytes	478 Kbytes	64 Mbytes CompactFlash↗	3.5 W	11.9 BTU/hr	1200 mA	14 mA
1756-L63	8192 Kbytes	478 Kbytes	64 Mbytes CompactFlash↗	3.5 W	11.9 BTU/hr	1200 mA	14 mA
1756-L60M03SE	750 Kbytes⌘	478 K bytes✦	64 Mbytes CompactFlash↗	8.5 W	11.9 BTU/hr	1960 mA	6 mA

✞Data and logic memory stores: tags other than I/O, produced, or consumed tags; logic routines; and communication with OPC/DDE tags that use RSLinc software (also uses I/O memory)
❄I/O memory stores: I/O tags, produced tags, consumed tags, communication via MSG instructions, communication with workstations, and communication with OPC/DDE tags that use RSLinx software (also uses data and logic memory).
‡The CompactFlash card is available separately as 1784-CF64.
§The 1756-L60M03SE is a 1756-L60 ControlLogix controller with an embedded 1756-M03SE SERCOS interface. This is a 2-slot module.

The 1756-L6x controller executes ladder scans almost twice as fast as the 1756-L55 controllers and executes function block, REAL data type math, and motion instructions 4-5 times faster than the 1756-L55 controllers.

The 1756-L60M03SE controller combines a 1756-L6x controller and a SERCOS motion module in a two-slot module. This controller is ideal for small motion systems and can control 3 SERCOS axes with the included interface. This controller can control as many as 6 axes if you add an additional motion module.

Select a controller for a redundant controller system

If you are designing a redundant controller system, consider:

- Redundant controller systems support one or two 1756-L55 controllers or one 1756-L6x controller in each redundant chassis.
- Data is buffered in the secondary controller, so twice as much data memory space is required in the controller.
- The redundant controllers must be on a ControlNet network.