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Connection Information

User Serial Ports

All Processor module ports except for the port labeled "PROGRAMMER/PORT B" on the leftmost Processor in the rack are available to the user to connect to an external device which will be controlled by application tasks running on the Processor. Refer to the Enhanced BASIC Language Instruction Manual (J-3675) for more information. Note that with AutoMax Processor modules, you can use the statements OPEN "PORTA" or OPEN "PORTB".

Note: If you do not enable bit 15 (hardware handshaking) in the SETUP parameter of the OPEN statement, only pins 2, 3, and 7 of the port you OPEN will be meaningful.

Pin#	I/O	Function
2	O	This signal contains transmitted data.
3	I	This signal contains received data.
4	O	Transmit status. This signal is true whenever the transmitter is sending characters. It is used to "bracket" a character transmission. It can be used to enable/disable any type of external equipment, such as a tri-state transmit modem, which requires an enable signal to output characters. This signal is meaningful only if hardware handshaking has been enabled.
5	I	This signal enables the transmitter. It must be true for the transmitter to send a character. This signal is typically used for hardware flow control. It is meaningful only if hardware handshaking has been enabled.
6	I	This signal enables the receiver. It must be true in order for the receiver to accept characters. If the signal becomes false while a message is being received, any characters being received will be deleted and an error will be reported to the application software. This signal is meaningful only if hardware handshaking has been enabled.
7		Signal ground.
10	O	This signal is an isolated +12 Volt which can be used as an enable or equipment ready indicator. The signal is always on whenever power is applied to the Processor.
20	O	This signal indicates receiver status. The signal is true whenever the receiver can accept characters, i.e., when the receive buffer is not full. When the receive buffer fills to within a specified limit, the signal is turned off. The signal can be used to disable another transmitter. It is meaningful only when hardware handshaking has been enabled.

Reliance Electric / 24703 Euclid Avenue / Cleveland, Ohio 44117 / 216-266-7000

RELIANCE ELECTRIC

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AutoMax Processor
(M/N 57C430A)
(M/N 57C431)
(M/N 57C435)

Module Specifications

Module Number 57C430A Contains: One (1) AutoMax Processor Module (256K)
Module Number 57C431 Contains: One (1) AutoMax Processor Module (512K)
Module Number 57C435 Contains: One (1) AutoMax Processor Module (512K)

Ambient Conditions

- Storage temperature: –40°C – 85°C
- Operating temperature: 0°C – 60°C
- Humidity: 5–90% non-condensing

Maximum Module Power Dissipation

- 15 Watts average

Dimensions

- Height: 11.75 inches
- Width: 1.25 inches
- Depth: 7.375 inches

System Power Requirements

- 5 Volts: 3000 ma average
- –12 Volts: 100 ma average
- +12 Volts: 100 ma average

Battery Specifications

- Type: Lithium
- Size: AA
- Voltage: 3.6 Volts
- Amp. Hrs.: 2.0

Memory Retention

	57C430A/57C431	57C435
• Minimum hold-up with battery:	42 days	186 days
• Typical hold-up with battery:	333 days	8.2 years
• Minimum hold-up without battery:	10 minutes	10 minutes
• Typical hold-up without battery:	10 hours	10 hours
• Maximum charge-up time:	15 minutes	15 minutes

Serial Port Specifications

- Type: RS-232C
- Electrical Isolation: 450 Volts
- Voltage: ± 12 Volts
- Maximum current per channel: ± 30 ma

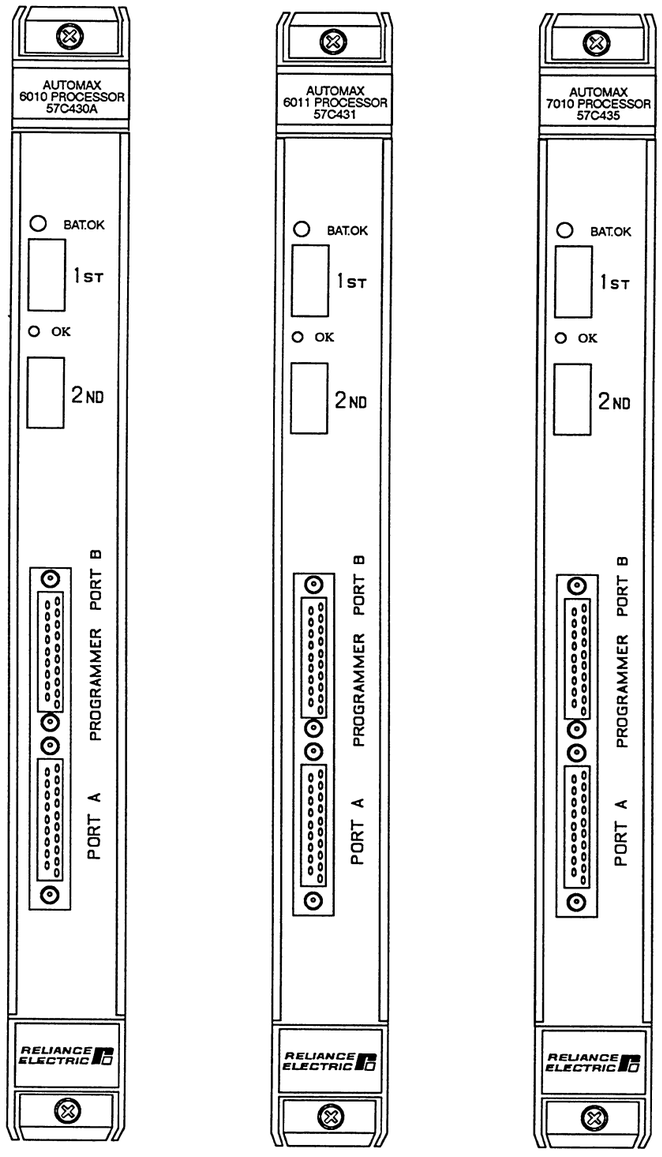
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I-3729-3

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Processor Module Faceplate



Connection Information

Programmer/Port B

If the personal computer that will be used as a programming terminal for the Processor module was purchased from Reliance, you will receive with the computer the proper cable to connect the computer and the Processor module through the port labeled "Programmer/Port B."

WARNING

THE FOLLOWING INSTRUCTIONS ARE INTENDED ONLY TO ALLOW FABRICATION OF PROPER CONNECTIONS BETWEEN RELIANCE EQUIPMENT AND USER-PROVIDED PROGRAMMING DEVICES. THE USER MUST READ AND UNDERSTAND ALL APPLICABLE INSTRUCTION MANUALS PRIOR TO OPERATING THE EQUIPMENT. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN BODILY INJURY.

If it is necessary to prepare a cable to connect a programming terminal to the RS-232 port labeled "Programmer/Port B" on the leftmost processor in the AutoMax rack, follow the steps outlined below.

1. Determine whether your programming terminal contains a 9- or 25-pin male connector.
2. Cut a suitable length (not to exceed 10 feet) of 22- gauge, multi-conductor cable.
3. Follow the connector manufacturer's instructions and make cable connections using figure 1 or 2, whichever is applicable.
4. Check for grounds, shorts, and continuity using an Ohm meter.

Programming Terminal End 25-Pin Female Connector			Reliance End 25-Pin Male Connector	
SIGNAL	PIN#		PIN#	SIGNAL
RECV	3	←	2	XMIT
XMIT	2	→	3	RECV
CTS	5	←	4	RTS
RTS	4	→	5	CTS
DTR	20	→	6	DSR
DSR	6	←	20	DTR
COM	7	↔	7	COM

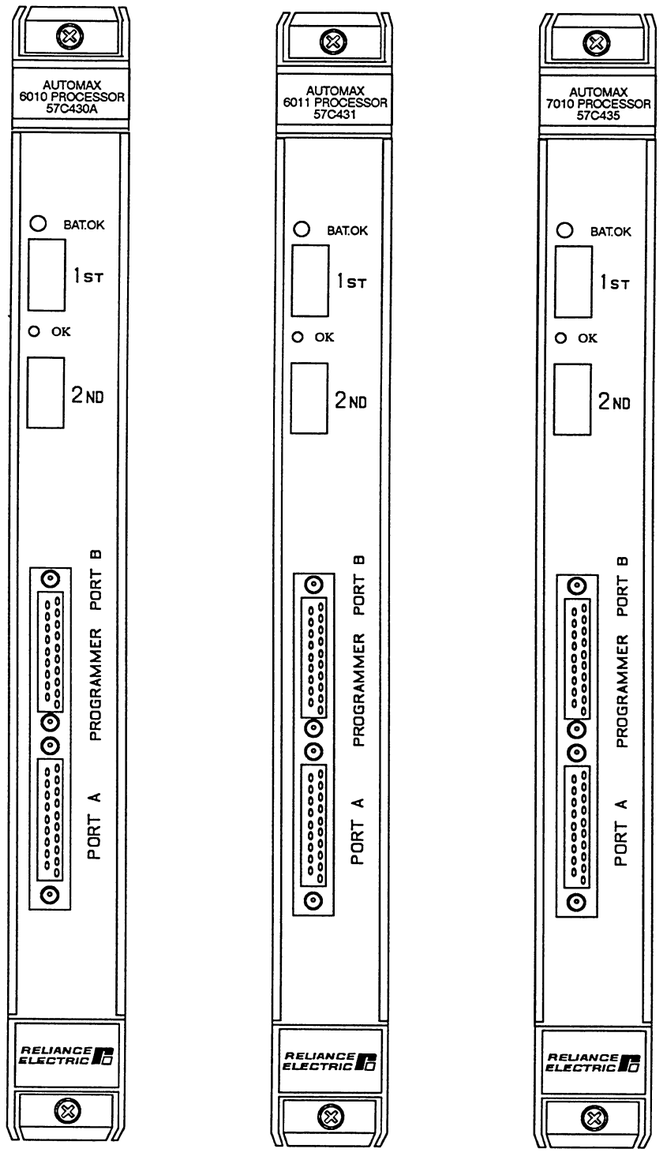
Figure 1

Programming Terminal End 9-Pin Female Connector			Reliance End 25-Pin Male Connector	
SIGNAL	PIN#		PIN#	SIGNAL
RECV	2	←	2	XMIT
XMIT	3	→	3	RECV
CTS	8	←	4	RTS
RTS	7	→	5	CTS
DTR	4	→	6	DSR
DSR	6	←	20	DTR
COM	5	↔	7	COM

Figure 2

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XMIT	2	→	3	RECV
CTS	5	←	4	RTS
RTS	4	→	5	CTS
DTR	20	→	6	DSR
DSR	6	←	20	DTR
COM	7	↔	7	COM

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SIGNAL	PIN#		PIN#	SIGNAL
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RTS	7	→	5	CTS
DTR	4	→	6	DSR
DSR	6	←	20	DTR
COM	5	↔	7	COM

Figure 2

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For additional information

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Serial Port Specifications

- Type: RS-232C

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