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Data Sheet

August 15, 2026

GET CONTROL

Get Control E84 Serial to Parallel Controller (SPC)

Six auxiliary sensor inputs and one auxiliary output Instrument Type: SEMI E84 serial to parallel controller Standard: SEMI E84 enhanced carrier handoff parallel I/O Host Interface: RS-232 transmit, receive, ground Instrument Type: SEMI E84 serial to parallel controller Standard: SEMI E84 enhanced carrier handoff parallel I/O Host Interface: RS-232 transmit, receive, ground Pio Connector: female DB-25 passive E84 PI/O



MODEL

Get Control E84

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

E84

LISTING

<https://aumictechlabs.com/products/e84-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Get Control E84 Serial to Parallel Controller (SPC) is a SEMI E84-compliant interface solution that bridges serial host controllers to parallel E84 I/O equipment in 300mm semiconductor manufacturing environments. The device manages load and unload handshaking with built-in algorithms, error detection, and signal reporting - reducing host processing overhead. It operates in automatic mode for minimal intervention or manual mode for direct signal control, and can function stand-alone using placement and presence sensor inputs. Technical Specifications SEMI E84 fully compliant passive PI/O interface Serial to Parallel Controller with line-based ASCII message protocol 16 optically-isolated E84 I/O signals plus three reserved optical transceiver signals (Select, Mode, Go) Six auxiliary inputs for placement, presence, light curtain, and custom sensors One auxiliary output Backward-compatible firmware; default shipping version 5.3.4 Power supply: Single +18 to 30 VDC @ 200 mA total (100 mA SPC, 100 mA E84 interface) +24V

auxiliary power output available for optical transceiver devices

Key Features

- Automatic handshaking mode with minimal host intervention
- Manual mode for individual PI/O signal control and monitoring
- Stand-alone operation via integrated sensor inputs
- RS232 serial interface (DTE configuration)
- Female DB-25 connector for E84 interface
- AMP 3mm Micro MATE-N-LOK connectors for all external wiring

Typical Applications

- Process tools and equipment controllers
- FOUP buffers and smart storage shelves
- Load ports and simulation load ports
- Factory AMHS integration via optical transceiver devices
- Stocker and material handling system interfaces

Compatibility & Integration

Connects directly to factory AMHS or optical transceiver devices. Integrates with equipment controllers via standard RS232 serial communication. Mating connector (AMP P/N 1-794617-2) included with unit.

Features & description

From manufacturer datasheet

Built-in SEMI E84 Load and Unload algorithms

RS-232 host with ASCII API, automatic or manual PI/O 16 optically isolated E84 signals plus Select, Mode, Go Six auxiliary sensor inputs and one auxiliary output Aluminum enclosure or 3 inch Snap Track

Technical Specifications Model: E84 Instrument Type: SEMI E84 serial to parallel controller Standard: SEMI E84 enhanced carrier handoff parallel I/O Supply Voltage: plus 18 to 30 VDC Supply Current: 200 mA Host Interface: RS-232 transmit, receive, ground Pio Connector: female DB-25 passive E84 PI/O

E84 Signals: 16 optically isolated E84 I/O Transceiver Signals: Select, Mode, Go reserved optical transceiver lines Auxiliary Inputs: 6 (placement, presence, light curtain, customer) Auxiliary Outputs: 1

Transceiver Power: plus 24 V available for optical transceiver Wiring Connectors: AMP 3 mm Micro MATE-N-LOK 794617-2 and 794617-8 Enclosure: extruded aluminum, or without enclosure for 3 inch Snap Track

Api: line-based ASCII message set Auto Mode: automatic E84 Load and Unload handshake Manual Mode: host controls and monitors individual PI/O Leds: PI/O signal state LEDs Wafer Size: 300 mm FOUP / load-port class Manufacturer: Get Control, Inc. Literature: GCI E84 SPC product page and hardware technical reference

E84 Characteristics / Specifications

PARAMETER	VALUE
Model	E84
Instrument Type	SEMI E84 serial to parallel controller
Standard	SEMI E84 enhanced carrier handoff parallel I/O
Supply Voltage	plus 18 to 30 VDC
Supply Current	200 mA
Host Interface	RS-232 transmit, receive, ground
Pio Connector	female DB-25 passive E84 PI/O
E84 Signals	16 optically isolated E84 I/O
Transceiver Signals	Select, Mode, Go reserved optical transceiver lines
Auxiliary Inputs	6 (placement, presence, light curtain, customer)
Auxiliary Outputs	1
Transceiver Power	plus 24 V available for optical transceiver
Wiring Connectors	AMP 3 mm Micro MATE-N-LOK 794617-2 and 794617-8
Enclosure	extruded aluminum, or without enclosure for 3 inch Snap Track
Api	line-based ASCII message set
Auto Mode	automatic E84 Load and Unload handshake
Manual Mode	host controls and monitors individual PI/O
Leds	PI/O signal state LEDs
Wafer Size	300 mm FOUP / load-port class
Manufacturer	Get Control, Inc.
Literature	GCI E84 SPC product page and hardware technical reference
Family	GCI E84 SPC
Form Factor	enclosed module or Snap Track board
System Role	SEMI E84 AMHS interface for 300 mm tools
Application Class	load port, stocker, FOUP buffer, simulation port

PARAMETER

VALUE

Error Handling

handshake error detection and reporting

Stand Alone

placement and presence sensor inputs for stand-alone control

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Stand Alone	placement and presence sensor inputs for stand-alone control

Notes

From Get Control E84 SPC OEM page (plus 18 to 30 VDC 200 mA, DB-25 16-signal PI/O, AMP Mate-n-Lok, ASCII API). Connector pinout and timing belong on the E84 hardware technical reference.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.