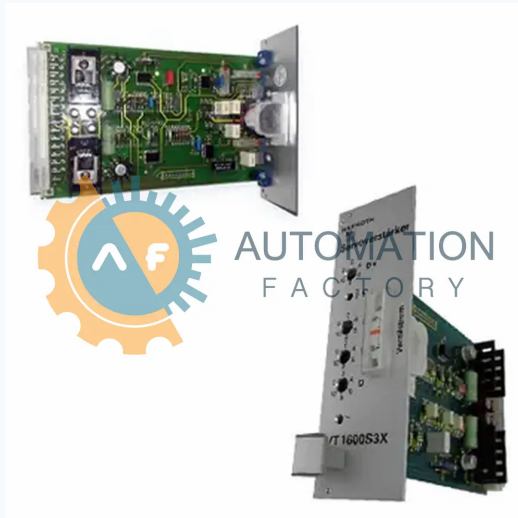


Bosch Rexroth Indramat — VT 1600 Servo Amplifiers

VT 16000-2X-120-A

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The **VT 16000-2X-120-A** is a multi-axis servo amplifier module produced by Bosch Rexroth Indramat for the VT 1600 Servo Amplifiers series. Installed inside hydraulic motion cabinets, this unit conditions feedback from position encoders and drives servo valves so that closed-loop control of cylinders and rotary actuators can be performed with millisecond accuracy. By combining signal processing, valve power, and field wiring in one chassis, the product simplifies the integration of hydraulic axes into centralized PLC architectures.

The module accepts absolute position feedback through an **SSI interface**, allowing direct use of single-turn or multi-turn transducers without external converters. It provides **8 analog inputs** for sensors such as pressure or displacement probes and **4 analog outputs** that can generate command voltages or currents for proportional valves. Motion coordination follows a **point-to-point profile**, so each axis moves from one commanded position to the next with jerk-limited ramps generated by the onboard controller. Discrete machine states can be monitored through **8 digital inputs**, while solenoid coils or relays are actuated by **8 digital outputs**. These resources allow a single amplifier to supervise measurement, sequencing, and power drive functions for a hydraulic axis group.

Fine incremental feedback is supported by **2 incremental encoder channels**, which supplement the four dedicated SSI ports when higher resolution is required for velocity loops. The amplifier can command up to **4 hydraulic axes** simultaneously, matching the channel count of the internal motion processor and integrated valve drivers. A rack can also host up to **4 peripheral modules**, such as communication gateways or additional I/O boards, without overloading the backplane bandwidth. This arrangement allows the connected axes to retain

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absolute position feedback while the incremental channels provide the detailed motion data needed for precise velocity control.

Specifications

Absolute Encoder Interface:	SSI	Analog Inputs Per Module:	8	Analog Outputs Per Module:	4
Control Type:	Point-To-Point	Controller Format:	Controller Integration	Digital Inputs Per Module:	8
Digital Outputs Per Module:	8	Incremental Encoder Channels:	2	Max Hydraulic Axes:	4
Max Peripheral Modules:	4	Ssi Encoder Channels:	4	Last Verified:	10/29/2026 12:50 AM

Contact Us

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Shipping Options



Payment Methods



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