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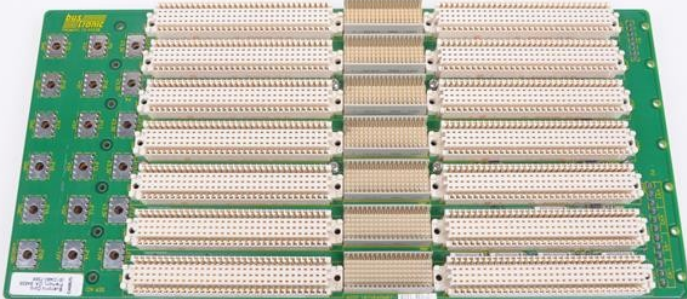
Data Sheet

August 15, 2026

ELMA / BUSTRONIC

Bustronic 7-Slot VME64x Backplane

The Elma / Bustronic 101V64XM07-0221 is a 7-slot VME64x backplane engineered for solid and reliable performance in demanding applications. This backplane adheres to the VME64x standard, ensuring broad compatibility with a diverse range of VMEbus boards. Its construction prioritizes signal integrity and power distribution, making it suitable for industrial, embedded, and computing environments. Aumictech offers NIST-traceable calibration and repair for the Elma / Bustronic 101V64XM07-0221. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Elma / Bustronic 101V64XM07-0221 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units. NIST-traceable calibration for the Elma / Bustronic 101V64XM07-0221 is (standard — pass/

**MODEL****Elma / Bustronic
101V64XM07-0221****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****101V64XM07-0221****LISTING**<https://aumictechlabs.com/products/101v64xm07-0221-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Elma / Bustronic 101V64XM07-0221 is a 7-slot VME64x backplane engineered for solid and reliable performance in demanding applications. This backplane adheres to the VME64x standard, ensuring broad compatibility with a diverse range of VMEbus boards. Its construction prioritizes signal integrity and power distribution, making it suitable for industrial, embedded, and computing environments. Technical Specifications * Product Name: Elma / Bustronic 101V64XM07-0221 7-

Slot VME64x Backplane Form Factor: 7U Slots: 7 VME Standard Compliance: Fully compliant with ANSI/VITA VME extension standard, ANSI/VITA 1.1-1997, and VITA 1.7 Increased Current Specification Board Construction: * 10-layer board construction * Five signal layers and five power and ground planes * Full stripline design * Generously distributed decoupling capacitors (high and low frequency) * 2 oz. power and ground planes * Three 2 oz. copper ground planes for shielding, EMI/RFI minimization, and crosstalk reduction * Two 2 oz. copper VCC planes for maximized power distribution and noise reduction Termination: Onboard, inboard termination to reduce signal length and reflections Daisy Chaining: * Automatic active BUSGRANT and IACK daisy chaining * Utilizes surface mount components for daisy chaining Mechanical: * 10 Pin Power Tap with 6/32 Screw power interface * J1 Connectors: 160 Pin, 17 mm with Shrouds, all slots * J2 Connectors: 160 Pin, 13 mm with Shrouds, all slots * No J0 Connector * Power insertion area located below signal slots above the bottom-mounting rail for maximum power potential * Adequate numbers of power bugs to accommodate higher power than typical potential per slot * Optional 8/32" press-in power studs available Power Distribution: * Distribution of +5V, +3.3V, +/-12V, +/-V1, +/-V2, and VPC * Accommodates +/- V1 and V2 via a 12-pin friction lock header connector at the top of the backplane * Accommodates system functions (+Ground, +5V, ACFAIL, SYSFAIL, SYSRESET, +3.3V, +12V, and -12V) via an 8-position utility connector Interfaces * J1 Connectors: 160-pin VME extension connectors J2 Connectors: 160-pin VME extension connectors Power Interface: 10 Pin Power Tap with 6/32 Screw Utility Connector: 8-position for system functions Auxiliary Voltages Connector: 12-pin friction lock header for +/- V1, +/- V2 Compatibility * VMEbus Standards: Supports VME64x standard, ensuring compatibility with a wide range of VMEbus boards VME Extension Standard: Compliant with ANSI/VITA VME extension standard Backward Compatibility: Fully backwards compatible to the ANSI/VITA 1.1-1997 standard (VME320) Physical * Dimensions: 7U height Weight: Ship Weight: 10 lbs /ea Why Choose Aumictech for the Elma / Bustronic 101V64XM07-0221 7-Slot VME64x Backplane? At Aumictech, we specialize in supplying high-end VME64x backplanes. Whether you need a reliable communication backbone for applications, a solid solution for industrial and embedded systems, or seamless compatibility with a wide range of VMEbus boards, our team ensures the Elma / Bustronic 101V64XM07-0221 delivers maximum performance for your application.

101V64XM070221 Characteristics / Specifications

PARAMETER	VALUE
Model	101V64XM07-0221
Instrument Type	VME64x backplane
Slot Count	7 (07 in the part number)
Bus	VME64x
Family	Bustronic 101V64XM
Form Factor	6U VME64x backplane
Connectors	J1/J2 VME64x; J0 per 0221 stuffing
Power Planes	3.3 V, 5 V, plus 12 V, minus 12 V class on VME64x
Manufacturer	Elma / Bustronic
Literature	Bustronic VME64x backplane family; queue title 7-slot VME64x
System Role	7-slot VME64x interconnect
Application Class	6U VME64x card cage
Brand Lineage	Bustronic Elma
Vita	VME64x (VITA 1.1 class)
Config	0221 termination / P0 / power-lug configurator
Prefix	101V64XM VME64x series
Height	6U
Width Class	7-slot 0.8 inch pitch class VME
Impedance Class	controlled-impedance Bustronic VME64x multilayer
Geographic	VME64x geographic addressing on J0 when stuffed
Live Insertion	VME64x live-insertion pins when J0 stuffed
Documentation Type	OEM Bustronic VME64x 7-slot listing
Use Case	VME64x SBC and I/O in a 7-slot crate
Mounting	card-cage backplane rails
Termination Class	on-board or off-board per 0221

PARAMETER	VALUE
Power Lugs	power lug pattern per 0221 drawing
Queue Title	Bustronic 7-Slot VME64x Backplane

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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Queue Title	Bustronic 7-Slot VME64x Backplane
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Notes

From Bustronic/Elma VME64x backplane family identity and 101V64XM07-0221 7-slot decode. Layer count, impedance ohms, and current per pin are on the 101V64XM07 drawing and are not invented.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.