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Data Sheet

August 14, 2026

BURLEIGH

Burleigh 8200 Inchworm Motor Controller (Single Axis)

Burleigh 8200 Inchworm Motor Controller (Single Axis), Controls inchworm motors with programmable step control and position feedback. Ensures smooth, precise micro-positioning in optical and mechanical systems. Compact and user-friendly.



MODEL

Burleigh 8200

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8200

LISTING

<https://aumictechlabs.com/products/8200-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Burleigh 8200 Inchworm Motor Controller is a single-axis precision motion control instrument engineered for nanometer-level micro-positioning in optical, mechanical, and laboratory automation systems. It interfaces directly with Burleigh Inchworm motors using piezoelectric actuation technology, delivering true linear motion without backlash, mechanical drift, or rotational components. The controller supports both open-loop manual operation via front panel or optional handset and closed-loop automated control with encoder feedback for position maintenance and display. Technical Specifications Axis Configuration: Single axis Motor Compatibility: IW-800 series Inchworm motors with or without shaft encoders; TSE-820 series integrally encoded stages; UHV series motors with appropriate connectors Resolution: Nanometer-level precision; capable of 1.0 nm per step or 2.5 angstroms per step depending on motor selection Operating Modes: Open-loop (manual via handset/joystick or automated via TTL signals); closed-loop with

encoder counting circuitry for step sizing, position display, zero-point setting, and position maintenance Actuation: PZT piezoelectric drive electronics Power Supply: 90-260 VAC, 50/60 Hz universal input; 150 W consumption Compliance: CE marked; designed for low radiated noise and high electrical immunity Key Features Programmable step control with position feedback in closed-loop configurations Step size determined by applied voltages and motor loading Front panel controls with optional handset operation RS-232 and optional GPIB remote interfaces TTL signal support for automated control Compact, user-friendly form factor Supports up to six axes per 8200/8600 series chassis Compatibility & Integration The 8200 controller integrates with the Burleigh Inchworm motor ecosystem, supporting both shaft-encoded and non-encoded configurations. Remote operation via RS-232, optional GPIB, or TTL signals enables integration into multi-axis automated systems and OEM applications.

8200 Characteristics / Specifications

PARAMETER	VALUE
Model	BHE22748-200
Output Power Class	200 W class
Series Family	Comtech PST BHE
Modulation Capability	CW AM FM phase and pulse class
Harmonics Maximum Class	minus 20 dBc class linear amplifiers
Spurious Maximum Class	minus 60 dBc class
Input VSWR Maximum Class	2.0:1
Load Protection	open/short protected
RF Connector Class	TypeNor 7/16 by power class
Cooling	forced air
Form Factor	19 inch rack mount
AC Input Class	multi-phase or high-power AC per chassis
Gain Flatness Class	per BHE model table
Frequency Band Class	BHE22748 band per model table
Noise Figure Class	per series table
Remote Interface Class	IEEE-488/RS-232 options on series
Duty Cycle	CW rated
Impedance	50 ohms
Operating Temperature Class	laboratory ambient
Brand	Comtech PST
Queue Power Code	200
Intended Use	RF/EMC power amplification
Faceplate Confirm Class	confirm exact frequency and P1dB on nameplate
Operating temperature	Class: laboratory ambient

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory ambient
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Operating Temperature Class	laboratory ambient
Brand	Comtech PST
Queue Power Code	200
Intended Use	RF/EMC power amplification
Faceplate Confirm Class	confirm exact frequency and P1dB on nameplate Notes From Comtech PST BHE-series amplifier family literature for BHE22748-200. Exact frequency limits and Psat belong on the unit nameplate and model datasheet row.

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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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.