SNAP B3000 BRAIN

Serial SNAP I/O Brain

Opto 22 SNAP B3000 BRAIN is a serial snap i/o brain for SNAP B-series distributed I/O.

SNAP B3000 BRAIN configuration dashboard

Installed-system continuity

Controls a mixed rack of SNAP analog and digital I/O over a serial host connection without redefining the approved equipment architecture.

Identity-led replacement

The complete SNAP B3000 BRAIN marking keeps revision, interface and fitted-position decisions tied to the actual unit.

Controlled return to service

Connector, terminal, setting and diagnostic evidence are checked before the affected function is released.

Exact order-code identity

Product type	Serial SNAP I/O Brain
Product family	SNAP B-series I/O
Official part number	B3000
Product function	Serial SNAP analog/digital I/O brain
Host interface	RS-485 twisted pair
Supported protocols	mistic and Optomux
Maximum serial rate	115.2 Kbaud
Rack family	SNAP B-series mounting racks

SNAP B3000 BRAIN performs a defined serial snap i/o brain role: it controls a mixed rack of SNAP analog and digital I/O over a serial host connection. Selection is based on the complete marking and the documented SNAP B-series I/O execution.

Serial SNAP I/O Brain technical capability map

I/O mix	Analog and digital modules	**5 V supply current**	0.5 A

Installed signal or connection path

Field signal > **Termination block** > **SNAP B3000 BRAIN** > **LocalBus** > **Control strategy**

System interpretation boundary

The verified technical rows distinguish exact-model identity from family-level system context. Dimensions and weight are shipping estimates supplied for this offered item; technical acceptance follows the installed drawing and manufacturer evidence.

Before exchange, record the fitted position, every connector or terminal identity, adjustable settings and the healthy operating baseline. After installation, prove the affected function under a controlled site procedure.

Application fit decisions for SNAP B3000 BRAIN

Exact-model service replacement

Replace the same SNAP B3000 BRAIN execution after documenting the installed interface.

System maintenance

Retain the SNAP B-series distributed I/O relationship and approved drawing references.

Controlled fault isolation

Separate board, wiring, power and companion-hardware causes before substitution.

Commissioning evidence

Capture diagnostics and a functional test of the affected serial snap i/o brain path.

Engineering decision matrix

Which installed identity details must be recorded for SNAP B3000 BRAIN?	Record the full label, fitted position, connector or terminal map, and every adjustable setting before removal.
What interface check is most important before replacing SNAP B3000 BRAIN?	Compare the receiving hardware and every keyed, numbered or polarized connection with the approved drawing.

How should settings be controlled when servicing SNAP B3000 BRAIN?	Photograph and transcribe jumpers, switches, firmware or range selections that apply to this exact execution.
What should be inspected before fitting SNAP B3000 BRAIN?	Inspect contacts, terminal hardware, board supports, protective earth and nearby wiring for damage or contamination.

Applications must be evaluated against the exact installed machine drawing, target, companion hardware and receiving channel. Related product references do not imply substitution.

SNAP B3000 BRAIN service controls and maintenance logic

Capture the complete marking

Photograph SNAP B3000 BRAIN and all secondary labels before removal.

Preserve installed settings

Record jumpers, switches, firmware, ranges or calibration references that apply.

Control stored energy

Follow the approved isolation and electrostatic handling procedure.

Label every connection

Mark conductors, plugs, fibers or tubing by their installed identifiers.

Inspect mating hardware

Check contacts, terminals, guides, supports and protective earth.

Prove the affected function

Verify diagnostics and actual process or equipment response before handover.

Additional technical questions

Which companion hardware must be verified with SNAP B3000 BRAIN?	Confirm the associated controller, terminal board, rack, power source or field device named by the installed design.
How should energization be managed after installing SNAP B3000 BRAIN?	Restore energy in the approved sequence, watch diagnostics, and stop if the expected healthy state is not obtained.
What functional proof adds technical value for SNAP B3000 BRAIN?	Exercise the affected signal, protection, power or communications path and retain before-and-after readings.
What handover record is required after commissioning SNAP B3000 BRAIN?	Keep the exact part marking, installed photographs, settings, test results, deviations and responsible approval.

Technical notes

Evidence boundary	Opto 22 Form 787 SNAP Brain Data Sheet
Exact-model rule	Do not infer interchangeability from a similar family code; match SNAP B3000 BRAIN completely.
Acceptance record	Retain identity, interface, settings, diagnostics and functional proof.
Installed function	SNAP B3000 BRAIN is controlled as the serial snap i/o brain used in SNAP B-series distributed I/O.
Receiving comparison	Compare complete marking, mechanical execution, connectors and all secondary labels before acceptance.
Connection record	Retain connector, terminal, cable or field-device identities in their installed sequence.
Setting record	Preserve every fitted jumper, switch, firmware, range or adjustment reference that applies.
As-found baseline	Capture the healthy static value, indication or communications state before disturbing the assembly.
As-left proof	Record diagnostics plus a controlled functional result for the affected serial snap i/o brain path.
Document package	File photographs, test readings, deviations, approvals and the applicable drawing revision together.

SNAP B3000 BRAIN source record and supported references

Manufacturer reference	Opto 22 Form 787 SNAP Brain Data Sheet
Applicability	Facts are limited to the exact order-code selections and stated matched-system conditions.
Public page	Exact product page linked from the first-page model title
Evidence boundary	No neighboring-model option or unsupported lifecycle conclusion is assigned to this product.

Verified related product references and contact

Recommended product	Opto 22 SNAP-LCM4 M4SENET-100
Recommended product	Opto 22 SNAP-PS5
Recommended product	Opto 22 SNAP-LCSX-PLUS
Recommended product	Opto 22 001818K AC24 AT
Recommended product	Opto 22 SNAP-AIMA-4

Discuss the exact marking and installed relationship with Apter Power.
sales13@apterpower.com | +86 18030235313