

3500/20 125744-02

Rack Interface Module

Bently Nevada 3500/20 125744-02 is a Rack Interface Module for the 3500 machinery-protection system. It manages rack communications, configuration access and system-level status exchange.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3500 Machinery Protection System

PART

125744-02

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3500/20 125744-02

PRODUCT OVERVIEW

Bently Nevada 3500/20 125744-02 is a Rack Interface Module for the 3500 machinery-protection system. It manages rack communications, configuration access and system-level status exchange.

- 1

Provides the primary configuration and communication interface for a 3500 rack
- 2

Collects rack status and monitoring information for compatible host software
- 3

Supports front-panel local serial access and rear host-network connections
- 4

Coordinates rack address, keylock and system-contact functions

SYSTEM COMPONENTS

3500 rack

125768-01 or approved RIM I/O module

Rack Configuration Software

RS232 or RS422 host network

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/45 140072-04	Four-channel position monitor	Open product page
3500/60 163179-01	Six-channel temperature monitor	Open product page
3500/64M 140734-05	Four-channel dynamic-pressure monitor	Open product page
3500/40M 176449-01	Four-channel Proximitior monitor	Open product page
3500/32M 149986-02	Four-channel relay control module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Power consumption	4.75 W typical
Front-panel interface	RS232
Front-panel protocol	ASCII
Front-panel baud rate	9600 or 19200 baud
Network protocol	Bently Nevada proprietary
Network maximum data rate	38.4 kbaud
RS232 maximum cable length	30 m
RS422 maximum cable length	1200 m
External modem cable length	3 m typical

PARAMETER	VALUE
Rack addresses	63 selectable
System-contact current	Less than 1 mA dc
OK relay rating	5 A at 24 Vdc or 120 Vac
Operating temperature	-30 to +65 degC
Storage temperature	-40 to +85 degC
Relative humidity	95% non-condensing
Front rack space	1 full-height slot
Rear I/O rack space	1 full-height slot

TECHNICAL NOTE

Record the rack address, keylock state, rear I/O execution and host serial settings before removal; after installation confirm CONFIG OK, rack communication and system-contact operation.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Local rack configuration

Provides the primary configuration and communication interface for a 3500 rack

Plant host data collection

Collects rack status and monitoring information for compatible host software

Multi-rack communication networks

Supports front-panel local serial access and rear host-network connections

Machinery-protection system status integration

Coordinates rack address, keylock and system-contact functions

PRODUCT PRECAUTIONS

- 1 Identify the complete 125744-02 marking and assigned 3500 rack before replacement.
- 2 Place the protected machine and rack communication clients in an approved maintenance state.
- 3 Isolate rack power and external contact circuits before removing the RIM.
- 4 Preserve the rack address, serial interface selection, baud rate and host topology.
- 5 Use ESD controls and protect the front serial connector and backplane contacts.
- 6 Match the rear RIM I/O module to the installed RS232, RS422 or modem arrangement.
- 7 Restore the approved rack configuration and verify CONFIG OK before remote access.
- 8 Test host data retrieval, rack reset and OK relay behavior before release.

ENGINEER FAQ

Q1 Which rear I/O module should be paired with 3500/20 125744-02?

Use the rear I/O execution documented for the installed serial interface and rack topology; verify the complete I/O part number before insertion.

Q2 How is the rack address handled when replacing 3500/20 125744-02?

Record the installed rack address before removal, restore the same unique address and verify host communication before reconnecting remote clients.

Q3 Which serial path is appropriate for local setup of 3500/20 125744-02?

The front-panel RS232 ASCII interface is the local configuration path; use the documented baud selection and approved cable.

Q4 What must be recorded before removing 3500/20 125744-02?

Record keylock state, rack address, host link type, communication rate, system-contact wiring and the current diagnostic condition.

Q5 How should host communication be tested after installing 3500/20 125744-02?

Confirm CONFIG OK, establish communication from the assigned workstation and verify configuration access plus rack-data retrieval.

Q6 Can 3500/20 125744-02 be inserted in any 3500 rack slot?

Use the Rack Interface Module position defined by the 3500 rack architecture and pair it with the corresponding rear I/O module.

Q7 What does an engineer verify if 3500/20 125744-02 shows a communication fault?

Check rack address, interface selection, cable type and length, baud rate, rear I/O seating and host configuration before changing hardware.

Q8 What evidence should be retained after commissioning 3500/20 125744-02?

Retain the complete part identity, restored rack configuration, host-communication test, system-contact results and final diagnostics.