

INDUSTRIAL AUTOMATION PRODUCT

125768-01

RIM I/O Module with RS232/RS422 Interface

Bently Nevada 125768-01 is the RS232/RS422 rear I/O module for a 3500/20 Rack Interface Module. It connects host software to the rack for configuration and machinery-data retrieval.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3500/20 Rack Interface System
Part number	125768-01
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	TECHNICAL VALUE
Serial interfaces	RS232; RS422; external modem
Protocol	Bently Nevada proprietary
Maximum serial data rate	38.4 kbaud
RS232 maximum cable length	30 m
RS422 maximum cable length	1200 m
External modem cable length	3 m typical
Rack connector interface	RS422
Rack connector data rate	38.4 kbaud maximum
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
Humidity	95% non-condensing
Rear rack space	1 full-height slot

3

System Role and Architecture

Bently Nevada 125768-01 is the RS232/RS422 rear I/O module for a 3500/20 Rack Interface Module. It connects host software to the rack for configuration and machinery-data retrieval.

FUNCTION 1
Provides selectable RS232 or RS422 host communication for the 3500/20 RIM

FUNCTION 2
Carries proprietary rack configuration and data-retrieval traffic

FUNCTION 3
Supports long-distance RS422 and short-distance RS232 or modem connections

FUNCTION 4
Exposes Trip Multiply, Alarm Inhibit, Rack Reset and rack-OK interfaces

Matched system components

- 3500 rack rear slot
- 3500/20 standard or TMR RIM
- Host computer or external modem
- RS232 or RS422 communication cable

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3500 rack rear slot
Companion hardware	3500/20 standard or TMR RIM
Field connection	Host computer or external modem
Primary system function	Provides selectable RS232 or RS422 host communication for the 3500/20 RIM
Controlled acceptance duty	Local rack configuration

4

Applications and Engineering Context

Local rack configuration

Provides selectable RS232 or RS422 host communication for the 3500/20 RIM

Long-distance RS422 host link

Carries proprietary rack configuration and data-retrieval traffic

Multi-rack communications chain

Supports long-distance RS422 and short-distance RS232 or modem connections

External modem service connection

Exposes Trip Multiply, Alarm Inhibit, Rack Reset and rack-OK interfaces

TECHNICAL NOTE

Set the interface selector to the installed physical layer, verify rack address uniqueness and confirm host communication at the documented rate before enabling remote configuration access.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	125768-01 / 125768-01 recorded
Physical interface	3500 rack rear slot
Companion check	3500/20 standard or TMR RIM
Functional proof	Provides selectable RS232 or RS422 host communication for the 3500/20 RIM
Application test	Local rack configuration

5

Engineering Precautions

1

Verify 125768-01 and its paired 3500/20 RIM before changing any serial connection.

2

Place the configuration keylock in the approved state before service work.

3

Record the interface selection, rack address and host cable destination.

4

Maintain RS232 and RS422 cable lengths within their published limits.

5

Use the rack connector only for the documented RS422 daisy-chain path.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/40M 176449-01	Four-channel Proximitor monitor	Open product page
125680-01	Internal-termination Proximitor I/O module	Open product page
125720-01	Four-channel relay output module	Open product page
125760-01	3500 Data Manager I/O module	Open product page
128240-01	External-termination Prox/Seismic I/O	Open product page

MANUFACTURER SOURCE RECORD

3500/20 Rack Interface Module Datasheet

141531 Rev. D

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



125768-01