

3500/20

Rack Interface Module

Bently Nevada 3500/20 is the Rack Interface Module that links a 3500 rack to configuration, display and data-acquisition systems.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3500 System

PART

3500/20

PRODUCT TYPE

Rack Interface Module

APTER POWER SALES TEAM

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PRODUCT OVERVIEW

Bently Nevada 3500/20 is the Rack Interface Module that links a 3500 rack to configuration, display and data-acquisition systems.

1

Provides the rack communication interface

2

Supports RS422 rack networking

3

Connects configuration and acquisition software

4

Supports daisy-chained rack arrangements

SYSTEM COMPONENTS

Bently Nevada 3500 System

the documented companion module

approved field wiring

the controlled rack configuration

TECHNICAL NOTE

Record rack address, RS422 topology, Data Manager connection and software communication settings before replacing 3500/20.

TECHNICAL DATA

PARAMETER	VALUE
module role	Rack Interface Module
rack communication	proprietary Bently Nevada protocol
primary serial interface	RS422
maximum rack-link rate	38.4 kbaud
maximum RS422 distance	1200 m

PARAMETER	VALUE
rack topology	multiple racks may be daisy-chained
Data Manager rate	9600 baud fixed
Data Manager cable limit	3 m
operating temperature	-30 to +65 degC

ENGINEERING NOTE

Record rack address, RS422 topology, Data Manager connection and software communication settings before replacing 3500/20.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6SL3352 6TE33 8AA3	Related industrial automation product	View Siemens 6SL3352 6TE33 8AA3 page
Siemens 6RY1803 0DA04	Related industrial automation product	View Siemens 6RY1803 0DA04 page
Siemens C98043 A7106 L4	Related industrial automation product	View Siemens C98043 A7106 L4 page
Bently Nevada 330180 90 CN	Related industrial automation product	View Bently Nevada 330180 90 CN page
Bently Nevada 330106 05 30 10 02 00	Related industrial automation product	View Bently Nevada 330106 05 30 10 02 00 page
Siemens 6RY1803 0DA03	Related industrial automation product	View Siemens 6RY1803 0DA03 page
Bently Nevada 330104 01 05 50 02 00	Related industrial automation product	View Bently Nevada 330104 01 05 50 02 00 page
Bently Nevada 330910 00 24 10 01 CN	Related industrial automation product	View Bently Nevada 330910 00 24 10 01 CN page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Rack configuration access

Provides the rack communication interface

Condition data acquisition

Supports RS422 rack networking

Multi-rack communication

Connects configuration and acquisition software

RIM replacement

Supports daisy-chained rack arrangements

PRODUCT PRECAUTIONS

- 1 Verify the complete 3500/20 marking and its assigned Bently Nevada 3500 System position before work.
- 2 Place the connected rack configuration access process in the approved maintenance state.
- 3 Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.
- 4 Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.
- 5 Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.
- 6 Confirm the installed Bently Nevada 3500 System and the documented companion module against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended condition data acquisition function and retain the final acceptance result.

ENGINEER FAQ

Q1 Which official module role applies to Bently Nevada 3500/20?

Baker Hughes documents the module role as Rack Interface Module. Verify this exact identity and its installed configuration before service.

Q2 How is the rack communication identified for Bently Nevada 3500/20?

Baker Hughes documents the rack communication as proprietary Bently Nevada protocol. Verify this exact identity and its installed configuration before service.

Q3 What primary serial interface is documented for Bently Nevada 3500/20?

Baker Hughes documents the primary serial interface as RS422. Verify this exact identity and its installed configuration before service.

Q4 Which maximum rack-link rate must be retained for Bently Nevada 3500/20?

Baker Hughes documents the maximum rack-link rate as 38.4 kbaud. Verify this exact identity and its installed configuration before service.

Q5 What does Baker Hughes specify as the maximum rs422 distance for Bently Nevada 3500/20?

Baker Hughes documents the maximum rs422 distance as 1200 m. Verify this exact identity and its installed configuration before service.

Q6 How should technicians verify the rack topology of Bently Nevada 3500/20?

Baker Hughes documents the rack topology as multiple racks may be daisy-chained. Verify this exact identity and its installed configuration before service.

Q7 Which published data manager rate distinguishes Bently Nevada 3500/20?

Baker Hughes documents the data manager rate as 9600 baud fixed. Verify this exact identity and its installed configuration before service.

Q8 What is the documented data manager cable limit used by Bently Nevada 3500/20?

Baker Hughes documents the data manager cable limit as 3 m. Verify this exact identity and its installed configuration before service.

SOURCE 3500/20 Rack Interface Module Datasheet | 141531 Rev. D

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