

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3500 System
Part number	3500/20

APTER POWER SALES TEAM

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Technical Specifications

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

PARAMETER	TECHNICAL 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
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 DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Bently Nevada 3500 System
Companion hardware	the documented companion module
Field connection	approved field wiring
Primary system function	Provides the rack communication interface
Controlled acceptance duty	Rack configuration access

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System Role and Architecture

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

FUNCTION 1
Provides the rack communication interface

FUNCTION 2
Supports RS422 rack networking

FUNCTION 3
Connects configuration and acquisition software

FUNCTION 4
Supports daisy-chained rack arrangements

Matched system components

- Bently Nevada 3500 System
- the documented companion module
- approved field wiring
- the controlled rack configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Bently Nevada 3500 System
Companion hardware	the documented companion module
Field connection	approved field wiring
Primary system function	Provides the rack communication interface
Controlled acceptance duty	Rack configuration access

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Applications and Engineering Context

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

TECHNICAL NOTE

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

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	3500/20 / 3500/20 recorded
Physical interface	Bently Nevada 3500 System
Companion check	the documented companion module
Functional proof	Provides the rack communication interface
Application test	Rack configuration access

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Engineering 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.

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MANUFACTURER SOURCE RECORD

3500/20 Rack Interface Module Datasheet

141531 Rev. D

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