

# BullSequana EXD & Al100D

# **Description Guide**

86 A1 88FS 05 - January 2025

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Hardware

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Eviden 30 bis rue du Nid de Pie 49000 Angers FRANCE

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### Preface

This guide lists user documentation and provides a general overview of the server.

See The Bull support web site for the most up-to-date product information, documentation, firmware updates, software fixes and service offers: https://support.bull.com

### **Intended** readers

This guide is intended for use by system administrators and operators.

### Important user information

Read this document and the other product documents about installation, configuration, operation, and maintenance of the product before installing, configuring, operating or servicing it.

Activities including installation, adjustments, putting into service, use, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable codes of practice.

If the product is used in a manner not specified by the manufacturer, the protection provided by the product may be impaired.



#### DANGER D049

The product must not be used in life support system or other applications where failure could threaten injury or life, and any such use voids the limited warranty associated to the product.

### **Regulatory declarations and disclaimers**

### Safety compliance statement

This product is in compliance with the following:

### **European Union (EU)**

Low voltage directive 2014/35/EU: standard EN 62368-1

#### **UL/CSA** certification

UL 62368 (USA)

CSA 62368 (Canada)

### **Electromagnetic compatibility statement**

This product is in compliance with the protection requirements of the following:

#### **European Union (EU)**

EMC directive 2014/30/EU : standards EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3

### Federal Communications Commission (FCC) compliance (USA)

CFR 47, FCC Part 15 B

#### FCC declaration of conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### FCC statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Neither the provider nor the manufacturer are responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

Pursuant to Part 15.21 of the FCC Rules, any changes or modifications to this equipment not expressly approved by the manufacturer may cause harmful interference and void the FCC authorization to operate this equipment. An FCC regulatory label is affixed to the equipment.

### ICES-003 compliance (Canada)

Canadian Compliance Statement (Industry Canada)

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

This product is in conformity with the protection requirements of the ICES-003 standard.

#### Waste management

This product has been built to comply with the following:

#### REACH

Regulation (EC) N°1907/2006 of the European Parliament and the 18/12/2006 REACH Council

#### ROHS

2011/65/EU, complemented by the delegated directive 2015/863/UE

#### WEEE

2012/19/EU

### **Safety notices**

# Important Read the safety notices before undertaking any procedures described in the documentation.

All safety notices used in the documentation are listed in the Multilingual Safety Notices Guide and are classified by severity:



#### DANGER D000

A Danger notice indicates the presence of a hazard that has the potential of causing death or serious personal injury.



#### CAUTION COOO

A Caution notice indicates the presence of a hazard that has the potential of causing moderate or minor personal injury.



#### WARNING W000

A Warning notice indicates an action that could cause damage to a program, device, system, or data.

Each safety notices is prefixed with a unique identification number. This can be used to locate the corresponding translated version in the Multilingual Safety Notices Guide.

### **Chapter 1. Related publications**

This list is not exhaustive. Useful documentation is supplied on the Resource and Documentation ISO file delivered with the system. It is strongly advised to refer carefully to this documentation before proceeding to configure, use, maintain, or update the system.

#### **Documentation Sets**

- BullSequana EX & Al Customer Documentation Set, 86 XP 74PA This documentation set contains all the customer documentation relative to the server.
- BullSequana EX & AI Field Documentation Set, 86 XP 75PA This documentation set contains all the field documentation relative to the server.

#### **Read me First**

- Resource and Documentation ISO file This ISO file contains the tools and documentation required to configure, operate and maintain the system.
- BullSequana Servers Site Preparation Guide, 86 A1 85FP
   This guide explains how to prepare a data processing center for servers, in compliance with the standards in force. This guide is intended for use by all personnel and trade representatives involved in the site preparation process.
- BullSequana Servers Safety Notices Guide, 86 XI 12FL
   This guide lists, in different languages, the notices referenced in the documentation procedures.
- BullSequana EXD & Al100D Description Guide, 86 Al 88FS This guide lists user documentation and provides a general overview of the server. This guide is intended for use by system administrators and operators.

#### Installation

BullSequana EXD & Al100D Installation Guide, 86 Al 99FS This guide explains how to install the server for the first time. This guide is intended for use by instructed or skilled personnel in charge of installing the server.

#### Operation

- BullSequana EX & AI Server Hardware Console (SHC), 86 AI 26FT This guide explains how to use the SHC to manage the server. This guide is intended for use by system administrators and operators.
- BullSequana Servers MONGUI User's Guide, 86 A1 61FT
   This guide explains how to use the MONitoring Graphical User Interface (MONGUI) to manage BullSequana servers.
- BullSequana EX & Al Getting Started Guide, 86 Al 31FT This guide explains how to set up the server. This guide is intended for use by system administrators and operators.
- BullSequana EX & AI Redfish Documentation, 86 AI 38FT This guide explains the implementation of the Redfish API for server management. This guide is intended for use by system administrators and operators.
- BullSequana Servers OneBSM Console Reference Guide, 86 AI 55FT This guide explains how to use the OneBSM console to monitor and maintain Eviden systems. This guide is intended for use by system administrators and operators.

#### Maintenance

- BullSequana EX & AI Redfish Events Messages, 86 A1 35FT This guide lists the messages issued by the server and provides associated actions and information to troubleshoot. This guide is intended for use by system administrators and operators.
- BullSequana EXD & AllOOD Customer Service Guide, 86 Al 56FT This guide explains how to replace the Customer Replaceable Units (CRUs) of the server. This guide is intended for use by instructed or skilled personnel in charge of server and cabinet maintenance.
- BullSequana EXD & Al100D Field Service Guide, 86 A7 58FT This guide explains how to replace the Field Replaceable Units (FRUs) This guide is intended for use by instructed or skilled personnel in charge of server and cabinet maintenance.

### Chapter 2. BullSequana EXD & Al100D description

### 2.1. Overview

BullSequana EX & AI servers exploit the Intel ® Xeon ® platform, Sapphire Rapids processor. Each BullSequana EX & AI includes one processor that can support up to eight DDR5 memory modules.

Each BullSequana EXD & Al100D module is 2U high.

Up to 8x M.2 NVMe disks are available for storage

In addition two M.2 cards are supported on an internal riser for boot disk, accelerator cards and WIFI communication card options.

A PCIe module supports one double or two single width PCIe cards, including GPU accelerators.

Four wireless technologies are supported:

- 2.4 GHz 5.9 GHz dual-band WiFi (Dual-band WiFi)
- Bluetooth
- Long Term Evolution 5G Global System for Mobile Communications
- LoRa

BullSequana EX & AI servers are air-cooled and managed by a single Baseboard Management Controller (BMC).

### 2.2. Front view



### 2.3. Rear components



Mark	Description	
А	PSU 0	
В	PSU 1	
С	Antenna	
D	Antenna	
E	Antenna	
F	Antenna	
G		
Н	Up to 2 x 150 W or 1 x 300 W PCIe modules	

#### Notes

- The server is equipped with two PSUs (2N redundancy).
- Dual-band 2.4-5.9 GHz WIFI, LoRa, LTE/5G wireless technologies are supported. See the Installation Guide for the different antenna configurations possible.

### 2.4. Top level components

### 2.4.1. Top view with air duct





Mark	Description
А	Air duct

### 2.4.2. Top view without air duct





Mark	Description	Quantity
A	Front Panel Board (FPB)	1
В	M.2 NVMe disks	Up to 8
С	NVMe backpanel board	1
D	PCIe modules	2
E	Intrusion detection switch	1
F	Fans	5
G	Processor assembly	1
Н	M.2 riser board	1
1	Power Distribution Board (PDB)	1
J	Memory modules	8

Chapter 2. BullSequana EXD & Al100D description 2-5

2.5. Memory module channels





Mark	імс	Channel	Board slot	ID	BIOS setup memory topology
Н	3	7	СН-Н	DIMM-CHH0	Socket0.ChH.Dimm0
G	3	6	CH-G	DIMM-CHG0	Socket0.ChG.Dimm0
F	2	5	CH-F	DIMM-CHF0	Socket0.ChF.Dimm0
E	2	4	CH-E	DIMM-CHE0	Socket0.ChE.Dimm0
А	0	0	CH-A	DIMM-CHA0	Socket0.ChA.Dimm0
В	0	1	СН-В	DIMM-CНВ0	Socket0.ChB.Dimm0
С	1	2	сн-с	DIMM-CHC0	Socket0.ChC.Dimm0
D	1	3	CH-D	DIMM-CHD0	Socket0.ChD.Dimm0

### 2.6. M.2 NVMe disk slots



Mark	Description
А	M.2 NVMe disk slot 0
В	M.2 NVMe diskslot 1
С	M.2 NVMe disk slot 2
D	M.2 NVMe disk slot 3
E	M.2 NVMe disk slot 4
F	M.2 NVMe disk slot 5
G	M.2 NVMe disk slot 6
Н	M.2 NVMe disk slot 7

**Note** There are no disk in slots 6 and 7 on servers equipped wth a 10 Gb/s mezzanine.

### 2.7. M.2 riser board

### M.2 type M riser board



Mark	Slot	Possible card type	
	Slot 0 M kov connector	<ul> <li>M.2 NVMe disk - M key (C)</li> </ul>	
A Slot 0 - M key connector		<ul> <li>Accelerator card - B+M key (C)</li> </ul>	
		<ul> <li>M.2 NVMe disk - M key (C)</li> </ul>	
В	Slot 1 - M key connector	<ul> <li>Accelerator card - B+M key (C)</li> </ul>	
E	M.2 heat sink	N/A	

#### **Possible configurations**

Slot	Configuration 1	Configuration 2	Configuration 3
M key connector	M.2 NVMe disk M key	Accelerator card B+M key	Accelerator card B+M key
M key connector	M.2 NVMe disk M key	Accelerator card B+M key	M.2 NVMe disk M key

### M.2 type B riser board



Mark	Slot	Possible card types		
A	Slot 0 R kov connector	<ul> <li>LTE 5G</li> </ul>		
	Slot 0 - B key connector	<ul> <li>Accelerator - B+M key</li> </ul>		
		<ul> <li>LoRa (using adaptor)</li> </ul>		
В	Slot 1 - E key connector	<ul> <li>WIFI + Bluetooth</li> </ul>		
		<ul> <li>Accelerator - A+E key</li> </ul>		

### Possible configurations

Slot	Config 1	Config 2	Config 3	Config 4	Config 5
B key connector	LTE\5G	Accelerator card B+M key	LTE\5G	LTE\5G	Accelerator card B+M key
E key connector	WIFI + Bluetooth	WIFI + Bluetooth	Accelerator card A+E key	LoRa	LoRa

### 2.8. Fans



Mark	Description	
А		FAN 0
В	Single fans	FAN 1
С		FAN 2
D	Double fans	FAN 3
E		FAN 4

### 2.9. Optional mezzanine



Mark	Description
А	10 Gb/s mezzanine

# Chapter 3. Buttons, ports and LEDs

### 3.1. Front buttons, ports and LEDs

### 3.1.1. Buttons



Mark	Description
А	Power On / Off

### 3.1.2. LEDs



Mark	LEDs	color	Description
^	Power	Green	Module power on status
A		Blinking green	Module standby status
В	ID	Blinking blue	Module identification

### 3.2. Rear buttons, ports and LEDs

### 3.2.1. Buttons



Mark	Description	Operation
	BMC firmware recovery	Push the button in using a pointed objets and release.
A	Factory reset	Push the button in using a pointed objet and hold it in for more than 10 seconds before releasing.
В	Power On / Off	

### 3.2.2. Ports



Mark	Description	Port identification
А	Power supply 0	PSU0
В	Power supply 1	PSUI
С	RJ451Gb/sBMC Ethernet LAN	ВМС
D	RJ451Gb/sHost Ethernet LAN	Port 0
E	RJ451Gb/sHost Ethernet LAN	Port 1
F	RJ451Gb/sHost Ethernet LAN	Port 2
G	RJ451Gb/sHost Ethernet LAN	Port 3
н	USB 3.1 type A	Port 0
1	USB 3.1 type A	Port 1
J	USB 3.1 type A	Port 2
К	USB 3.1 type A	Port 3
L	USB 3.1 type A	Port 4
М	USB 3.1 type A	Port 5
N	USB 3.1 type C	Port 0
0	USB 3.1 type C	Port 1
Р	USB 2.0 mini type B	N/A
Q	VGA connector	N/A
R	SFP+ 10 Gb/s Ethernet (optional)	Port 0
S	SFP+ 10 Gb/s Ethernet (optional)	Port 1
Т	x16 PCIe riser	Slot 0
U	x16 PCIe riser	Slot 1



Mark	color	Description	Component	
	OFF	No AC power to all PSUs		
	Green	Normal power		
	Blinking green 1Hz	AC present / Only Vsb ON - PS OFF		
	Blinking green 1Hz	Secondary PSU is set as active standby mode (cold redundant)		
A/B	Blinking green 2Hz	PSU FW updating		
A/B	Amber	AC cord unplugged or AC power lost, with a second PSU in parallel still with AC input power	PSU1/PSU0	
	Amber	ber PSU critical event causing a shutdown: failure, OCP, SCP, OVP, Fan Fail and OTP		
	Blnking amber 1Hz	PSU warning events where the PSU continues to operate; high temperature, high power, high current and slow FAN		
С	Green	1 Gb/s Ethernet speed up		
D	Blinking amber	Ethernet link activity	RJ45 port 0	
E	Green	1 Gb/s Ethernet speed up	D1/E port 1	
F	Blinking amber	Ethernet link activity	RJ45 port 1	
G	Green	1 Gb/s Ethernet speed up	RJ45 port 2	
Н	Blinking amber	Ethernet link activity		

Mark	color	Description	Component	
1	Green	1 Gb/s Ethernet speed up		
J	Blinking amber	Ethernet link activity	RJ45 port 3	
	Green	ОК		
K	Red blinking	Warning	Temp fault	
	Red	Error		
	Green	ОК		
L	Red blinking	Non critical error	Fan fault	
	Red	Critical error / fault occur		
	Green	Module power on status		
	Green blinking	Module standby status		
М	Red blinking	Recovery mode	Power	
	Red	Power supply error		
	Green	ОК		
Ν	Red blinking	Warning limit overdue	WDT fault	
	Red	Error limit overdue		
	Green	ОК		
0	Red blinking	Warning	DIMM fault	
	Red	Error		
Ρ	Blinking blue	Module identification	ID	
0	Blinking green	ОК	NVME disk0	
Q	No LED	Fault/error or no AC power	activity	
6	Blinking green	ОК	NVME disk1	
R	No LED	Fault/error or no AC power	activity	
C	Blinking green	ОК	NVME disk2	
S	No LED	Fault/error or no AC power	activity	
	Blinking green	ОК	NVME disk3	
Т	No LED	Fault/error or no AC power	activity	
	Blinking green	ОК	NVME disk4	
U	No LED	Fault/error or no AC power	activity	
\ /	Blinking green	ОК	NVME disk5	
V	No LED	Fault/error or no AC power	activity	
\ <b>A</b> /	Blinking green	ОК	NVME disk6	
W	No LED	Fault/error or no AC power	activity	

Mark	color	Description	Component
x	Blinking green	ОК	NVME disk7
^	No LED	Fault/error or no AC power	activity
Υ	Green	1 Gb/s Ethernet speed up	RJ45 BMC
Z	Blinking amber	Ethernet link activity	RJ45 BMC
а	Green	10 Gb/s Ethernet speed up	Mezzanine
b	Blinking amber	Ethernet link activity	10G port 0
с	Green	10 Gb/s Ethernet speed up	Mezzanine
d	Blinking amber	Ethernet link activity	10G port 1

# Appendix A. Technical description

### A.1. General technical specifications

Operating limits		
Ambient air temperature	0 °C to 45 °C; gradient 20 °C / hour	
Relative humidity (non condensing)	5 % to 85 %; gradient 5 % / hour	
Pressure	70 to 106 kPa	
Elevation	Sea level < 3000 m	
Non-operating limits		
Ambient air temperature	< -20 °C and > 60°C	
Relative humidity (non condensing)	< 5 % and > 95 %; gradient 30 % / h	
Moisture content	1 to 29 g / m <sup>3</sup>	
Shipping limits		
Operating air temperature	-20 °C to 60 °C ; gradient 25 °C / hour	
Relative humidity (non condensing)	5 % to 95 %; gradient 30 % / hour	

### A.2. Dimensions and weight

BullSequana EXD & Al100D	
Height	2 U - 87 mm
Width	430 mm
Depth	433 mm
Weight	~ 15 Kg

### A.3. Module technical specifications

Electrical specifications			
Each BullSequana E	Each BullSequana EXD & Al100D module is equipped with two redundant PSUs		
Input	100 - 127 V AC 50 / 60 Hz 12 A max	200 - 240 V AC 50 / 60 Hz 8 A max	240 V DC 7 A max
Output	+12.2 V DC 82 A +12.2 Vsb DC 3 A	+12.2 V DC 106 A +12.2 Vsb DC 3 A	
Total power	1000 W max	1300 W max	
Environmental specifications			
Noise	25 °C inlet, 75 % of worst TDP power : 75 dB		
IP protection class	IP 20 without front bezel / filter IP 40 with front bezel / filter		

### A.4. Server technical description

Processor			
Number	One processor per module		
Туре	Fourth generation Intel Xeon Scalable processors		
	Architecture		
Platform	Based on Intel Eagle Stream Platform		
	Memory		
Minimum / Maximum	Up to 1 TB		
Туре	DDR5 RDIMM Up to 4400 MT / s		
Slots	Eight per module		
	I/O slots per module		
USB ports	Rear: eight USB 3.0		
Ethernet ports	Two 10 Gb and five 1 Gb Ethernet ports		
	Disks per module		
Disks	Internal: two M.2 NVMe disks Storage: up to eight M.2 NVMe disks		
GPUs per module			
GPUs	Two up to 150 W GPU cards or one up to 300 W GPU card		

### A.5. Antenna specifications

### A.5.1. Dual-band WiFi



Dimensions				
Unfolded height	108 mm			
Unfolded height	78 mm			
Maximum with	10 mm			
Minimum width	8 mm			
Attached depth	31 mm			
Technical specifications				
Frequency	2.4 - 5.9 GHz			
Voltage Standing Wave Ratio	≤ 2.5 : 1			
Gain	2.5 dB			
Polarization	Vertical			
Impedance	50 Ω			
Max power	20 W			
Environmental characteristics				
Operating temperature	- 40°C to + 85°C			
Compliance	RoHS compliant			

### A.5.2. LoraWAN



Dimensions				
Unfolded height	197 ± 3 mm			
Unfolded height	173 ± 2 mm			
Maximum with	13 mm			
Minimum width	6 mm			
Attached depth	37.3 ± 0.5 mm			
Technical specifications				
Frequency	868 MHz			
Voltage Standing Wave Ratio	< 2.0			
Gain	3 dBi			
Polarization	Linear			
Impedance	50 Ω			
Max power	20 W			
Environmental characteristics				
Operating temperature	- 40°C to + 85°C			
Vibration	10 to 55 Hz with 1.5 mm amplitude 2 hours			
Compliance	RoHS compliant			

### A.5.3. LTE / 5G



Dimensions					
Height	135 mm				
Width	10 mm				
Attached depth	19 mm				
Technical specifications					
Frequency (MHz)	617-960	1427-2690	3300-5000		
Voltage Standing Wave Ratio	~2.0:1	~2.6:1	~2.3:1		
Peak gain (dBi)	~-1.1	~0.5	~0.3		
Average gain (dB)	~-4.3	~-3.8	~-4.6		
Polarization	Linear				
Impedance	50 Ω				
Max power	25 W				
Environmental characteristics					
Operating temperature	- 40°C to + 85°C				
Compliance	RoHS compliant				

### Acronyms

### Α

No entries

### В

#### BIOS

Basic Input / Output System

#### BMC

Baseboard Management Controller

### С

#### CPU

Central Processing Unit

CRU

Customer Replaceable Unit

### D

### DDR5

Double Date Rate fifth generation

#### DIMM

Dual In-line Memory Module

### Ε

No entries

### F

FPB

Front Panel Board

#### FPGA

Field Programmable Gate Array

#### FRU

Field Replaceable Unit

### G

GPU

Graphical Processing Unit

#### GSM

Global System for Mobile communications

### H

HTTPS

HyperText Transfer Protocol Secure

#### l IP

Internet Protocol

## J

No entries

### Κ

No entries

### L

LAN

Local Area Network

#### LED

Light Emitting Diode

#### LoRa

Long Range wireless communication

#### LoRaWAN

Long Range Wide Area Network

#### LTE

Long Term Evolution

### Μ

MAC

Media Access Control

MI

Machine Intelligence

#### MISM

Machine Intelligence System Management

#### MIPSE

Machine Intelligence Pocket Server

### Ν

NVMe Non-Volatil Memory express

### 0

No entries

#### P PDB

Power Distribution Board

#### PCI

Peripheral Component Interconnect

#### PCle

PCI Express

#### PDU

Power Distribution Unit

### PSU

Power Suply Unit

### Q

No entries

### R

#### RDIMM

Registered Dual In-line Memory Module

#### REST

Representational State Transfert

### S

SATA

Serial ATA

#### SEL

System Event Log

#### SSD

Solid State Drive

### SSH

Secured Shell

#### SSL

Secure Socket Layer

#### T TDP

Thermal Design Point

### U

#### USB

Universal Serial Bus

#### V VGA

Video Graphic Array

### W

#### WIFI

Wireless Fidelity

#### WDT

Watch Dog Timer

### X No entries

### Υ

No entries

### Ζ

No entries

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