



# System 1 Servers and Accessories

## Datasheet

Bently Nevada Machinery Management

133M3049 Rev. E

This datasheet contains ordering information for computers and related accessories that have been tested with System 1.



## System Specifications and Recommendations

Standard Server	<p>Racks: Dual Intel Xeon 4208 8-core, 2.1GHz Processors, 16 cores total, 32 logical processors</p> <p>Towers: Dual Intel Xeon 4210 10-core, 2.2GHz Processors, 20 cores total, 40 logical processors</p> <p>64 GB RAM or above          Operating System Hard Disk: RAID 1 &amp; 300 GB – 10000 RPM          Historian Hard Disk: RAID 6 – 10,000 RPM          DVD-RW</p>
Light Server	<p>Rack: Single Intel Xeon 4208 8-core, 2.1GHz Processors, 8 cores total, 16 logical processors</p> <p>Tower: Single Intel Xeon 4210 10-core, 2.2GHz Processors, 10 cores total, 20 logical processors</p> <p>16 GB RAM or above          Operating System Hard Disk: RAID 1 &amp; 300 GB – 10,000 RPM          Historian Hard Disk: RAID 6 &amp; 1.2 TB– 10,000 RPM          DVD-RW</p>
Workstation	<p>Intel Xeon W-2123 (3.6 GHz Processor)</p> <p>16 GB RAM or above          1 GB Graphics Card          1 TB Hard Drive – 7200 RPM          DVD-RW</p>
Laptop	<p>i7 – 8850H (2.6 GHz Processor) 6 cores</p> <p>16 GB RAM or above          HD Graphics Card          512GB Solid State Drive          DVD-RW</p>
Virtualized Systems	<p>Refer to Virtualized Systems Technical White Paper, document number 125M6425.</p>
Network speed	<p>Minimum 100 Mbps recommended</p>
Supported Operating Systems	<p>Microsoft Windows 2019 Server Standard Edition 64 bit          Microsoft Windows 2016 Server Standard Edition 64 bit          Microsoft Windows 2012 Server R2 Standard Edition 64 bit          Microsoft Windows 8.1 Professional 64 bit          Microsoft Windows 10 Professional 64 bit † (2004, 20H2,21H1) †          † Recommended for Client</p>

## System 1 Servers

3071/30 System Servers	
<b>A: Computers</b>	
<b>00</b>	None
<b>##</b>	Refer to table below

### System Information Table

Type	BN Part #	OEM	Model	Processor	Disk 1 Space [GB]	Disk 2 Space [TB]	RAM [GB]	Server Datasheet
Standard Server Rack Mount	3071/30-A-01	HP	DL380 G10	4208 2.1 GHz	300 - RAID 1	2.4 - RAID 6	64	128M3395
	3071/30-A-02	Dell	R540	4110 2.1 GHz	240 - RAID 1	2.4 - RAID 6	64	128M3396
	3071/30-A-03	HP	DL380 G10	4208 2.1 GHz	300 - RAID 1	3.6 - RAID 6	64	110M2199
	3071/30-A-04	HP	DL380 G10	4208 2.1 GHz	300 - RAID 1	6.0 - RAID 6	64	110M2200
	3071/30-A-05	HP	DL380 G10	4208 2.1 GHz	300 - RAID 1	10.8 - RAID 6	64	110M2201
	3071/30-A-07	Dell	R540	4110 2.1 GHz	240 - RAID 1	6.0 - RAID 6	64	146M6615
	3071/30-A-08(i)	Dell	R540	4110 2.1 GHz	240 - RAID 1	12.0 - RAID 6	64	146M6617
HPE Trusted Supply Chain (Made in USA) Rack Mount	3071/30-A-14	HP	DL380 G10	4208 2.1 GHz	300 - RAID 1	3.6 - RAID 6	64	156M0070
	3071/30-A-15	HP	DL380 G10	4208 2.1 GHz	300 - RAID 1	6.0 - RAID 5	64	156M0071
	3071/30-A-16	HP	DL380 G10	4208 2.1GHz	300 - RAID 1	10.8 - RAID 6	64	156M0072
Standard Server Tower	3071/30-A-10	HP	ML350 G10	4210R 2.4 GHz	300 - RAID 1	2.4 - RAID 6	64	128M3394
	3071/30-A-11	HP	ML350 G10	4210R 2.4 GHz	300 - RAID 1	3.6 - RAID 6	64	110M2203
	3071/30-A-12	HP	ML350 G10	4210R 2.4 GHz	300 - RAID 1	6.0 - RAID 6	64	110M2206

Type	BN Part #	OEM	Model	Processor	Disk 1 Space [GB]	Disk 2 Space [TB]	RAM [GB]	Server Datasheet
	3071/30-A-13	HP	ML350 G10	4210R 2.4 GHz	300 - RAID 1	10.8 - RAID 6	64	110M2207
Light Server Rack Mount	3071/30-A-20	HP	DL380 G10	4208 2.1 GHz	300 - RAID 1	1.2 - RAID 6	32	110M2198
Light Server Tower	3071/30-A-21	HP	ML110 G10	4210R 2.4 GHz	300 - RAID 1	1.2 - RAID 6	32	110M2202
Workstation	3071/30-A-22	HP	HP Z4G4	W-2223 3.6 GHz	1000	-	16	02200478
Laptop	3071/30-A-23	HP	ZBOOK G7	i7-10850H 2.7 GHz	512	-	16	169849

>>>Recommendations:	
<b>Standard Server</b>	Medium, large, or x-large Premium/ Advanced databases
>Light Server	Fundamental installation or small Premium/ Advanced database
<b>Workstation</b>	Fundamental installation or Premium/ Advanced Client machine
>Laptop	Fundamental installation

## Computer Accessories

Category	Description	BN Part #
Keyboard <sup>(2)</sup>	Rack Mount Compact KB with touchpad	162543
	Rack Mount Integrated keyboard drawer	169403
Monitor	22" Flat Panel	165381
	24" Flat Panel	323597
	27" Flat Panel	123M4597
Printer	HP Printer 110V Color	162146
	HP Printer 220v Color	166432
Time Synch	NTP Time Server Hardware	165764
	Antenna for NTP Time Server Hardware	123M4605
	PCI IRIG Time Code Receiver	167114
Tape Backup	HP LTO Tape Drive Tower	104M9891
	HP LTO Tape Drive Rack	104M9890

Category	Description	BN Part #
International Power Cords	Brazil	285300
Network Switch	5 port unmanaged GB Ethernet switch w/ 2 fiber SFPs	103M2251P0036
	Sixnet Industrial Ethernet GB Fiber Transceiver (GSFIBER-SFP-10K)	103M2251P0037
Other	Belkin Gold Series USB 2.0 Cable	174013



(1) Note that the 3071/30-A-08 DELL rack server 12.0TB (BN part 146M6617) does not have a hot spare for the data drive.



(2) Tower servers come with a keyboard. Rack Mount servers do not.

## Third-Party Software

BN Part #	Description
3900/01	Matrikon OPC UA Tunneller
3900/02	Domain Time Client II
3900/03	Kepware Redundancy Master
3900/04 172067	Parallels Remote App Server, with 15 users + 5 years free upgrades and support from Parallels Microsoft RDS 5 CAL Packs
3900/05	Kepware Linkmaster
3900/06	Kepware Modbus Suite
3900/07	Acronis Backup Standard v12.5 + 1 year support - 1 machine

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