



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</p> <p>Operating System Hard Disk: RAID 1 & 300 GB – 10000 RPM</p> <p>Historian Hard Disk: RAID 6 – 10,000 RPM</p> <p>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</p> <p>Operating System Hard Disk: RAID 1 & 300 GB – 10,000 RPM</p> <p>Historian Hard Disk: RAID 6 & 1.2 TB– 10,000 RPM</p> <p>DVD-RW</p> |
| Workstation | <p>Intel Xeon W-2123 (3.6 GHz Processor)</p> <p>16 GB RAM or above</p> <p>1 GB Graphics Card</p> <p>1 TB Hard Drive – 7200 RPM</p> <p>DVD-RW</p> |
| Laptop | <p>i7 – 8850H (2.6 GHz Processor) 6 cores</p> <p>16 GB RAM or above</p> <p>HD Graphics Card</p> <p>512GB Solid State Drive</p> <p>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</p> <p>Microsoft Windows 2016 Server Standard Edition 64 bit</p> <p>Microsoft Windows 2012 Server R2 Standard Edition 64 bit</p> <p>Microsoft Windows 8.1 Professional 64 bit</p> <p>Microsoft Windows 10 Professional 64 bit † (2004, 20H2,21H1) †</p> <p>† Recommended for Client</p> |

System 1 Servers

| | |
|------------------------|----------------------|
| 3071/30 System Servers | |
| A: Computers | |
| 00 | None |
| ## | 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: | |
|------------------------|--|
| Standard Server | Medium, large, or x-large Premium/ Advanced databases |
| >Light Server | Fundamental installation or small Premium/ Advanced database |
| Workstation | Fundamental installation or Premium/ Advanced Client machine |
| >Laptop | Fundamental installation |

Computer Accessories

| Category | Description | BN Part # |
|-------------------------|---------------------------------------|-----------|
| Keyboard ⁽²⁾ | 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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1631 Bently Parkway South, Minden, Nevada USA 89423
Phone: 1.775.782.3611 (US) or [Bentley.com/support](https://www.bentley.com/support)
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