



Technical Note
**Amulet Hotkey DXM blade BIOS,
firmware and driver versions**

November 2020

Contents

Introduction	3
Updates	3
WR3930	4
FC430	5
FC630	6
FC640	7
DXM640	8
DXM630	9
14G PcoIP mezzanine host cards	10
13G PcoIP mezzanine host cards	11
13G PcoIP mezzanine host cards (continued)	12
DXM-A Apex 2800 (12G/13G)	13
KVM Extender hosts	13
PCoIP Zero Clients	13
Leostream Connection Broker	14
Teradici Management Console	14
KVM Switches	14
Dell M1000e enclosure	15
Supported RAID controllers	16
11 & 12G Blades	17
12G PcoIP mezzanine host cards	18
11G PcoIP mezzanine host cards	19
DXM420	20
DXM520	21
DXM620	22
DXM610	23
DXM710	24

Introduction

Amulet Hotkey has tested and approved the component firmware and driver versions listed below for Amulet Hotkey PCoIP blade workstations. Approval is given for these system configurations only. Subsequent releases beyond the date of this document are not included.

Where possible, non-critical component versions have been identified and we recommend that you use the latest firmware and driver releases for these components. However, this is without any implied approval by Amulet Hotkey unless otherwise advised by authorised representatives or official notification.

Updates

The updates for this document were:

SCN	Description	Importance	Products affected
460	FC640 iDRAC / Lifecycle 4.22.00.53	RECOMMENDED	FC640
461	M640 iDRAC / Lifecycle 4.22.00.53	RECOMMENDED	M640
462	NVIDIA T1000 VBIOS 9017464014	RECOMMENDED	T1000MxM, DXP4,FC640, M640
463	NVIDIA T1000 Driver 452.39 for Win10	RECOMMENDED	T1000MxM, DXP4,FC640, M640
464	M640 Win10 Chipset, Network & PERC Driver	RECOMMENDED	M640 chipset
465	NVIDIA P2000 VBIOS 8607910014 and Driver 452.57	URGENT	M640

WR3930

Component	Previous approved version	Current approved version
Chipset drivers Win 10	10.1.17903.8106	10.1.18121.8164_A09
3930 BIOS		Dell 2.3.0

Expansion Module

For Teradici firmware and PcoIP host software, plus GPU drivers and VBIOS, see 13G PcoIP mezzanine host cards' on page 17.

Network adapter

Intel NIC driver	23.5.0.0	24.1.0_A02
Aquantia 10 NIC		2.1.12.0

Supported RAID controllers

Hardware RAID:

For RAID controller summary specifications, see page 23.

Manuals, drivers and other downloads

- Amulet Hotkey support for FC640 blades: <https://www.amulethotkey.com/support/>

FC430

Component	Previous approved version	Current approved version
Chipset drivers Win 10	N/A	10.1.2.86, A09
Dell FC30 BIOS	N/A	Dell 2.11.0
iDRAC with Lifecycle Controller	N/A	2.75.75.75
Broadcom NIC	N/A	35.07.00
Tesla T4 Driver Win10	N/A	441.22
Expansion Module		
For Teradici firmware and PcoIP host software, plus GPU drivers and VBIOS, see 13G PcoIP mezzanine host cards' on page 17.		
Network adapter		
Broadcom NIC 57810		
Supported RAID controllers		
Hardware RAID: PERC H330 H730P		
For RAID controller summary specifications, see page 23.		
Manuals, drivers and other downloads		
<ul style="list-style-type: none">Amulet Hotkey support for FC430 blades: https://www.amulethotkey.com/support/		

FC630

Component	Previous approved version	Current approved version
Chipset drivers Win 10		10.1.2.85, A08
Dell M630 BIOS		Dell 2.10.5
iDRAC with Lifecycle Controller	2.61.105.60	2.70.70.70
Intel NIC		18.8.0,A00
SAS Raid		6.604.06.00 ,A05
M2200 Win10 Driver		431.86
Tesla P6 Driver Win10		426.23
Expansion Module		
For Teradici firmware and PcoIP host software, plus GPU drivers and VBIOS, see 13G PcoIP mezzanine host cards' on page 17.		
Network adapter		
Intel NIC driver		
Broadcom NIC 57810		
Supported RAID controllers		
Hardware RAID: PERC H330 H730P		
For RAID controller summary specifications, see page 23.		
Manuals, drivers and other downloads		
<ul style="list-style-type: none">Amulet Hotkey support for FC640 blades: https://www.amulethotkey.com/support/		

FC640

Component	Previous approved version	Current approved version
Chipset drivers Win 10	10.1.17861.8101_A03	10.1.18243.8188_A04
Dell M640 BIOS		Dell 2.3.10
iDRAC with Lifecycle Controller	4.22.00.00	4.22.00.53
Broadcom/Qlogic Network Driver Win10	35.00.00_A00-00	35.07.00, A00-00
Intel NIC Driver Win10	19.0.0_A00	19.5.0, A00
SAS Raid Win10		6.604.06.00,A01
Tesla P6 Driver Win10		426.23
M2200 Linux OpenSUSE Driver		430.50
M2200 Win10 Driver 431.86	441.66	451.77
P3000		442.92
Expansion Module		
For Teradici firmware and PcoIP host software, plus GPU drivers and VBIOS, see '13G PcoIP mezzanine host cards' on page 17 .		
Network adapter		
Intel NIC driver		
Broadcom NIC 57810		
Supported RAID controllers		
Hardware RAID: PERC H330 H730P		
For RAID controller summary specifications, see page 23 .		
Manuals, drivers and other downloads		
<ul style="list-style-type: none"> Amulet Hotkey support for FC640 blades: https://www.amulethotkey.com/support/ 		

DXM640

Component	Previous approved version	Current approved version
Chipset drivers Win 10	10.1.18243.8188_A04	10.1.18243.8188_A05_02
M640 BIOS	2.2.11 [Amulet 1.0.0]	2.4.8 [Amulet 1.0.0]
iDRAC with Lifecycle Controller	4.22.00.00	4.22.00.53

PcoIP mezzanine host cards

For Teradici firmware and PcoIP host software, plus GPU drivers and VBIOS, see 14G PcoIP mezzanine host cards on [page 10](#).

Network adapter

Intel NIC driver	18.8.0_A00_02	19.5.0, A00
Broadcom NIC 57810	35.05.00, A00-00	35.07.00, A00-00

Supported RAID controllers

Hardware RAID: PERC H330 H730P	6.603.07.00 A00	6.604.06.00_A01_07
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For RAID controller summary specifications, see [page 16](#).

Manuals, drivers and other downloads

- Amulet Hotkey support for DXM640 blades: <https://www.amulethotkey.com/support/>

DXM630

Component	Previous approved version	Current approved version
Dell iDRAC with Lifecycle Controller	2.70.70.70	2.75.75.75
Dell M630 BIOS	2.7.1 [Amulet 1.0.1]	2.11.0 [Amulet 1.0.1]
Chipset drivers Win 10	10.1.2.85,A08	10.1.2.86,A09
Chipset drivers Win 7	10.1.2.85,A08	10.1.2.86,A09
Matrox G200 device	n/a	4.1.1.5,A00
Dell M1000e enclosure	See page 15 for component details (CMC, iKVM)	
PcoIP mezzanine host cards		
For Teradici firmware and PcoIP host software, plus GPU drivers and VBIOS, see 13G PcoIP mezzanine host cards on page 11 .		
Network adapter		
Broadcom / QLogic driver Win10	30.00.00 A00-00	35.07.00 ,A00-00
Broadcom / QLogic driver Win7		35.00.00 ,A00-00
Broadcom firmware	7.10.59,7.10.59	08.07.25
Intel firmware	n/a	17.5.10
Intel NIC driver Win10	18.3.0 A00.02	18.8.0_A00_03
Intel NIC driver Win7		18.8.0_A00_03
Audio driver		
Realtek audio driver	n/a	R2.73
Supported RAID controllers		
Hardware RAID: H310, H710, H710p, H830 <i>for Windows 10</i>	6.602.35.00, A01	6.604.06.00, A05
Hardware RAID: H310, H710, H710p, H830 <i>for Windows 7/64-bit</i>	n/a	6.604.06.00, A05
Hardware RAID: PERC H330 firmware	n/a	25.5.0.0019. A06
For RAID controller summary specifications, see page 16 .		
Manuals, drivers and other downloads		
<ul style="list-style-type: none"> Amulet Hotkey support for DXM630 blades: https://www.amulethotkey.com/support/ Dell support for M630 blades (at May 2015): www.dell.com/support/home/us/en/19/product-support/product/poweredge-m630/get-started 		

14G PcoIP mezzanine host cards

Component	Previous approved version	Current approved version
Teradici PcoIP Host Software driver	4.3.1	20.01.0.413
Teradici firmware	17.05.1 / 20.04.2	17.05.3 / 20.04.4
AMD GPU		
None listed yet		
NVIDIA GPU – Quadro Desktop/Notebook Driver		
NVIDIA M2200 VBIOS	84.06.7C.00.02	84.06.7E.00.07
NVIDIA M2200 Win7 driver	441.66	441.66
NVIDIA M2200 Win10 driver	442.96	451.77
NVIDIA M2200 Linux driver	430.50	440.44
NVIDIA P5000 Win7 driver	412.16	430.39
NVIDIA P5000 Win10 driver	412.16	430.39
NVIDIA P5000 Linux Driver	410.66	430.26
NVIDIA P2000 Win10 Driver Wells Fargo	441.70	441.87
NVIDIA P3000 Win10 driver		442.92
NVIDIA T1000 VBIOS		90.17.46.40.14
NVIDIA T1000 Win10 Driver		452.39
NVIDIA P2000 VBIOS		86.07.91.00.14
NVIDIA P2000 Win10 Driver		452.57

13G PcoIP mezzanine host cards

Component	Previous approved version	Current approved version
Teradici PcoIP Host Software driver	4.3.1	20.01.0.413
Teradici firmware	17.05.1 / 20.04.2	17.05.3 / 20.04.4
AMD GPU		
AMD S4000X Driver (Win 7 & Win 10)	19.Q2	19.Q3
AMD S4000X Video BIOS	C4225400.014	C4225400.106
AMD E6760 Driver	n/a	15.201.1701
NVIDIA GPU – Quadro Desktop/Notebook Driver		
NVIDIA K2200M Driver Win7	430.39	441.66
NVIDIA K2200M Driver Win10	442.19	451.77
NVIDIA K2200M R384 Driver Win7	n/a	386.28
NVIDIA K2200M R384 Driver Win10	n/a	386.28
NVIDIA K2200M Video BIOS	n/a	82.07.80.00.1B
NVIDIA M2000M Video BIOS	82.07.9E.00.3C	82.07.B7.00.01
NVIDIA M3000SE Video BIOS	n/a	84.04.A4.00.01
NVIDIA M5000SE Video BIOS	n/a	84.04.A4.00.0B
NVIDIA M2000M Driver (Win7)	391.89	431.02
NVIDIA M2000M Driver (Win10)	391.89	431.02
NVIDIA M2000M R384 Driver (Win7)	n/a	386.28
NVIDIA M2000M R384 Driver (Win10)	n/a	386.28
NVIDIA M5000M Driver (Win10)	376.84	377.35
NVIDIA M3000SE Driver (Win7)	375.86	376.84
NVIDIA M3000SE Driver (Win10)	375.86	376.84
NVIDIA M5000SE Driver (Win7)	377.35	385.90
NVIDIA M5000SE Driver (Win10)	377.35	385.90
NVIDIA K3100M Driver	n/a	353.82
NVIDIA K5100M Driver	390.77	391.58

13G PcoIP mezzanine host cards (continued)

Component	Previous approved version	Current approved version
vGPU		
AMD S7100X Video BIOS	n/a	C7691200.100
AMD S7100X OS Driver	18.Q4.1 Win7/10	19.Q2.1 Win7/10
NVIDIA Tesla M6 Video BIOS	84.04.8F.00.0C	84.04.A5.00.01
NVIDIA Tesla P6 Video BIOS	n/a	86.04.68.00.01
NVIDIA Tesla P6 Win10 driver	n/a	426.23
NVIDIA Tesla M6 OS Driver	Link to NVIDIA portal (see Note below)	

Note: For NVIDIA, anyone purchasing GRID is required to purchase licences from Nvidia. The purchase of these licences enables access to a portal where the user can download the relevant driver set.

DXM-A Apex 2800 (12G/13G)

Component	Previous approved version	Current approved version
ESXi 5.0	n/a	2.3.5
ESXi 5.1	n/a	2.3.5
ESXi 5.5	n/a	2.3.5
ESXi 6.0	n/a	n/a

KVM Extender hosts

Component	Previous approved version	Current approved version
SW-RHA4-1110	1.7.1	1.8.1
TFTPD64 TFTP client	n/a	4.60

PCoIP Zero Clients

Component	Previous approved version	Current approved version
T2 Zero Client firmware (Examples: DXZ4, DXZC, DXR-Z4)	17.05.1 / 20.04.2	17.05.3 / 20.04.4
T2 CPA zero client firmware	20.01.4	20.04.4
BSM firmware	0.4.8	2.1.0

Leostream Connection Broker

Component	Website links
Leostream Connection Broker	https://www.leostream.com/resources/product-downloads

Teradici Management Console

Component	Previous approved version	Current approved version
Teradici Management Console	n/a	1.10.8

KVM Switches

Component	Previous approved version	Current approved version
K4u and K4vu firmware	SCN074	SCN262
K4u+	SCN160	SCN263
Mousepoint Installer	2.1	2.3

Dell M1000e enclosure

Component	Previous approved version	Current approved version
CMC (Chassis Management Controller)	6.20	6.21
Avocent iKVM	1.0.1.1 A03	1.0.1.1 A03
Manuals		
<ul style="list-style-type: none">Dell support for M1000e enclosures (at November 2015): http://www.dell.com/support/home/us/en/19/product-support/product/poweredge-m1000e/manuals		

Supported RAID controllers

RAID Controller	Blade	Summary specification
Dell PERC H330	DXM 630	Internal 12Gb/s RAID controller. Supports 12Gb/s SAS and 6Gb/s SATA. Low cost, entry level RAID solution
Dell PERC H730	DXM 630	Internal 12Gb/s RAID controller with 1GB DDR3 non-volatile (NV) cache. Supports 12Gb/s SAS or SATA
Dell PERC H730p	DXM 630	Internal 12Gb/s RAID controller with 2GB DDR3 non-volatile (NV) cache. Supports 12Gb/s SAS or SATA
Dell PERC H830	DXM 630	Internal 12Gb/s RAID controller with 2GB DDR3 non-volatile (NV) cache. Supports up to 255 SAS drives
Dell PERC H310	DXM 420 520 620	Internal 6Gb/s RAID controller (mini form factor). Low-cost entry level RAID solution
Dell PERC H710	DXM 420 520 620	Internal 6Gb/s RAID controller (mini form factor) with 512MB DDR3 non-volatile (NV) cache
Dell PERC H710p	DXM 420 520 620	Internal 6Gb/s RAID controller (mini form factor) with 1GB DDR3 non-volatile (NV) cache
Dell SAS 6/iR Modular	DXM 610 710	Internal 3Gb/s RAID controller

Further information about Dell PowerEdge RAID Controllers (PERC), at May 2015:

<http://www.dell.com/learn/uk/en/ukbsdt1/campaigns/dell-raid-controllers>

13G Support

Drivers for RAID controllers are available from www.dell.com. See:

Dell > Support > Product Support > Servers, Storage & Networking > PowerEdge Servers > M630 > Drivers & Downloads > SAS RAID

12G Support

Drivers for RAID controllers are available from www.dell.com. See:

Dell > Support > Product Support > Servers, Storage & Networking > PowerEdge Servers > M420|M520|M620 > Drivers & Downloads > SAS RAID

11G Support

We typically provide the SAS 6/iR with DXM610 blades (driver available from Amulet Hotkey), but other Dell RAID controllers are supported:

PERC H200 Modular; PERC H700 Modular; CERC 6/i Modular; PERC 6/i Modular

Contact your Amulet Hotkey representative if you need further information.

11 & 12G Blades

12G PcoIP mezzanine host cards

Component	Previous approved version	Current approved version
Teradici PcoIP Host Software driver	4.1.0	4.3.1
Teradici firmware	4.9.0	5.1.0
Realtek high definition audio device driver	6.1.7601.16385	R2.73
GPU		
AMD E6760 Driver (Catalyst Display Driver)	15.101.1001	15.201.1701
AMD E6760 Video BIOS	.125	.227
Note: The Video BIOS version determines which graphics drivers are supported for the E6760. See the following 'Video BIOS dependency' section for details.		
AMD S4000X FirePro Driver Win7 &10 (DXM420 only)	18.Q4	19.Q3
NVIDIA 500M Driver Win10 (Quadro/NVS/Tesla/Grid Desktop Driver)	n/a	368.39 DXM420 and DXM620 only
NVIDIA 500M Driver Win7 (Quadro/NVS/Tesla/Grid Desktop Driver)	354.56	368.39 DXM420 and DXM620 only
NVIDIA Video BIOS for Aydin monitors	70.08.d2.00.00	70.08.d2.00.00

1.1.1 Video BIOS dependency for AMD E6760 graphics driver

Supported graphics drivers for the E6760 GPU are dependent on the GPU Video BIOS. In particular, E6760 GPUs with the older Video BIOS are only compatible with AMD Catalyst drivers up to version 12.104. If you want to install the latest Catalyst drivers on these GPUs, you must first update the Video BIOS.

Instructions for installing the latest graphics driver and Video BIOS on DXM blade workstations are in Application Notes 071 and 072. These are available to download from the Amulet Hotkey web site.

Note that E6760 GPUs with Video BIOS .125 or .227 (both versions supersede version .218) are compatible with all versions of the AMD Catalyst driver.

To determine which version of Video BIOS is present on your E6760 GPU, contact Amulet Hotkey Technical Support. You will need to provide the serial number of the Amulet Hotkey PcoIP host card in your blade workstation.

Amulet Hotkey Technical Support: <https://www.amulethotkey.com/support/>

11G PcoIP mezzanine host cards

Component	Previous approved version	Current approved version
Realtek high definition audio device driver	6.1.7601.16385	R2.73
Teradici PcoIP Host Software driver	4.1.0	4.2.2
Teradici firmware	4.5.1	4.7.1-17101
NVIDIA GPU		
NVIDIA FX 370M GPU	368.39	342.00

DXM420

Component	Previous approved version	Current approved version
Dell iDRAC with Lifecycle Controller	2.63.60.62	2.65.65.65
Dell M420 BIOS	02.07.00 [1.0.3]	2.8.0 [1.0.3]
Dell Lifecycle Controller CPLD	1.4.2.12 A00	1.4.2.12 A00
Chipset drivers	9.3.2.1020,H00	10.1.2.77
Matrox G200 device	2.4.1.0	2.4.1.0 A00
Dell M1000e enclosure	See page 15 for component details (CMC, iKVM)	
PcoIP mezzanine host card		
For Teradici firmware and PcoIP host software, audio drivers, plus GPU drivers and VBIOS, see '12G PcoIP mezzanine host card' on page 18 .		
Network adapter		
Broadcom driver	18.2	20.0.0
Broadcom Firmware (BCM5720)	n/a	20.2.17
Qlogic FastLinQ Network Adapter Firmware (BCM57810)	7.10.18	08.07.26
Audio driver		
Realtek audio driver	6.1.7601.16385	R2.73
Supported RAID controllers		
Hardware RAID: H310, H710, H710p	6.803.21.00 A07	6.805.03.00,A09
For RAID controller summary specifications, see page 16 .		
Manuals, drivers and other downloads		
<ul style="list-style-type: none"> ▪ Amulet Hotkey support for DXM420 blades: https://www.amulethotkey.com/support/ • Dell support for M420 blades (at May 2015): www.dell.com/support/home/us/en/19/product-support/product/poweredge-m420/get-started 		

DXM520

Component	Previous approved version	Current approved version
Dell iDRAC with Lifecycle Controller	2.63.60.62	2.65.65.65
Dell M520 BIOS	2.7.0 [1.0.3]	2.8.0 [1.0.3]
Dell Lifecycle Controller CPLD	n /a	1.4.2.12 A00
Chipset drivers	9.3.2.1020, H00	10.1.2.77
Matrox G200 device	2.4.1.0	2.4.1.0 A00
Dell M1000e enclosure	See page 15 for component details (CMC, iKVM)	
PcoIP mezzanine host cards		
For Teradici firmware and PcoIP host software, audio drivers, plus GPU drivers and VBIOS, see '12G PcoIP mezzanine host card' on page 18 .		
Network adapter		
Broadcom driver	18.2	20.0.0
Broadcom firmware	7.10.18	08.07.26
Audio driver		
Realtek audio driver	6.1.7601.16385	R2.73
Supported RAID controllers		
Hardware RAID: H310, H710, H710p	6.803.21.00 A07	6.805.03.00,A09
For RAID controller summary specifications, see page 16 .		
Manuals, drivers and other downloads		
<ul style="list-style-type: none"> Amulet Hotkey support for DXM520 blades: https://www.amulethotkey.com/support/ Dell support for M520 blades (at May 2015): www.dell.com/support/home/us/en/19/product-support/product/poweredge-m520/get-started 		

DXM620

Component	Previous approved version	Current approved version
Dell iDRAC with Lifecycle Controller	2.63.60.62	2.65.65.65
Dell M620 BIOS	02.07.00 [1.0.3]	2.8.0 [1.0.3]
Dell Lifecycle Controller CPLD	n/a	1.4.2.12 A00
Chipset drivers	10.1.2.77	10.1.2.77 ,J03
Matrox G200 device	2.4.1.0	2.4.1.0 A00
Dell M1000e enclosure	See page 15 for component details (CMC, iKVM)	
PcoIP mezzanine host cards		
For Teradici firmware and PcoIP host software, audio drivers, plus GPU drivers and VBIOS, see '12G PcoIP mezzanine host card' on page 18 .		
Network adapter		
Broadcom driver	34.11.00 ,A00-00	35.00.00 ,A00-00
Broadcom firmware	n/a	20.2.17
Audio driver		
Realtek audio driver	6.1.7601.16385	R2.73
Supported RAID controllers		
Hardware RAID: H310, H710, H710p	6.803.21.00 A07	6.805.03.00,A04
For RAID controller summary specifications, see page 16 .		
Manuals, drivers and other downloads		
<ul style="list-style-type: none"> ▪ Amulet Hotkey support for DXM620 blades: https://www.amulethotkey.com/support/ ▪ Dell support for M620 blades (at May 2015): www.dell.com/support/home/us/en/19/product-support/product/poweredge-m620/get-started 		

DXM610

Component	Previous approved version	Current approved version
Dell iDRAC	3.75	3.80
Amulet Hotkey M610 BIOS	6.3.0	6.6.0
Dell Lifecycle Controller	1.5.0.671, A00	1.6.5.12 A00
Chipset drivers	n/a	9.1.2.1008, A03
Matrox G200 device	n/a	1.1.3.0 A00
Dell M1000e enclosure	See page 15 for component details (CMC, iKVM)	
PcIIP mezzanine host cards		
See page 19 for drivers.		
Audio driver		
Realtek audio driver	6.1.7601.16385	R2.73
Supported RAID controller		
Dell SAS 6/iR Modular	1.30.02	1.30.02
For RAID controller summary specifications, see page 16 .		
Manuals, drivers and other downloads		
<ul style="list-style-type: none">• Amulet Hotkey support for DXM610 blades: https://www.amulethotkey.com/support/• Dell support for M610 blades (at May 2015): www.dell.com/support/home/us/en/19/product-support/product/poweredge-m610/get-started		

DXM710

Component	Previous approved version	Current approved version
Dell iDRAC	3.75	3.80
Amulet Hotkey M710 BIOS	6.2.3	6.6.0
Dell Lifecycle Controller	1.4.0.586, A03	1.6.5.12 A00
Chipset drivers	n/a	9.1.2.1008, A03
Matrox G200 device	n/a	1.1.3.0 A00
Dell M1000e enclosure	See page 15 for component details (CMC, iKVM)	
PcoIP mezzanine host cards		
See page 19 for drivers.		
Audio driver		
Realtek audio driver	6.1.7601.16385	R2.73
Supported RAID controller		
Dell SAS 6/iR Modular	1.30.02	1.30.02
For RAID controller summary specifications, see page 16 .		
Manuals, drivers and other downloads		
<ul style="list-style-type: none">Amulet Hotkey support for DXM710 blades: https://www.amulethotkey.com/support/Dell support for M710 blades (at May 2015): www.dell.com/support/home/us/en/19/product-support/product/poweredge-m710/get-started		