

DigitalMedia PUF 2.61.00 Release Notes

Included Firmware – DM midpoints and switches

Device name	Device model number	Firmware included
DigitalMedia™ switcher main firmware	DM-MD8x8 & DM-MD16x16	4.102.291100063
DigitalMedia™ switcher operational config	DM-MD8x8 & DM-MD16x16	1.0.133
DigitalMedia™ switcher main firmware	DM-MD32x32(-RPS)	4.102.291100063
DigitalMedia™ switcher operational config	DM-MD32x32(-RPS)	1.0.133
DigitalMedia™ switcher main firmware	DM-MD6x1	4.102.245600045
DigitalMedia™ switcher operational config	DM-MD6x1	1.0.77
DigitalMedia™ switcher front panel main firmware	DM-MD8x8, 16x16, 32x32	2.002.0026
DigitalMedia™ switcher front panel application	DM-MD8x8, 16x16, 32x32	1.0.114
DigitalMedia™ switcher redundant PSU controller	DM-RPS	1.1498.00021
DigitalMedia™ switcher main firmware	DM-MD6x6 & DM-MD6x4	4.102.291100011
DigitalMedia™ switcher operational config	DM-MD6x6 & DM-MD6x4	1.0.77
DigitalMedia™ switcher front panel application	DM-MD6x6 & DM-MD6x4	1.0.72
DigitalMedia™ switcher front panel firmware	DM-MD6x6 & DM-MD6x4	1.1498.00021

Included Firmware – DM endpoints

Device name	Device model number	Firmware included	Minimum Bootloader
DigitalMedia™ 4K 8G+ room controller	DM-RMC-4K-100-C	1.2911.00046	329
DigitalMedia™ 8G+ room controller	DM-RMC-100-C	1.2911.00046	329
DigitalMedia™ DM-CAT room controller	DM-RMC-100	1.1498.00021	268
DigitalMedia™ fiber room controller	DM-RMC-100-F	1.1498.00021	268
DigitalMedia™ 8G fiber room controller	DM-RMC-100-S	1.2456.00045	268
DigitalMedia™ advanced 8G fiber room controller	DM-RMC-150-S	1.2456.00045	268
DigitalMedia™ advanced 8G fiber RMC FPGA	DM-RMC-150-S	4	
DigitalMedia™ advanced 8G+ room controller	DM-RMC-200/SCALER-C	1.2911.00046	329
DigitalMedia™ advanced 8G fiber room controller	DM-RMC-200/SCALER-S	1.2625.00028	268
DigitalMedia™ advanced 4K 8G+ room controller	DM-RMC-4K-SCALER-C	1.2911.00057	329
DigitalMedia™ advanced 4K 8G+ room controller DSP	DM-RMC-4K-SCALER-C	5.5	
DigitalMedia™ advanced 4K 8G+ room controller core	DM-RMC-4K-SCALER-C	3.30.1.169	
DigitalMedia™ 4K 8G+ single gang room controller	DM-RMC-4K-100-C-1G	1.3209.00023	343
DigitalMedia™ single gang room controller	DM-RX1-1G	1.1498.00021	69
DigitalMedia™ single gang transmitter	DM-TX1-1G	1.1498.00021	69
DigitalMedia™ HDMI transmitter, DM-CAT	DM-TX-100	1.2456.00045	268
DigitalMedia™ HDMI transmitter, fiber	DM-TX-100-F	1.2456.00045	268
DigitalMedia™ HDMI + RGB transmitter, DM-CAT	DM-TX-200, DM-TX-200-2G	1.2625.00028	105
DigitalMedia™ HDMI + RGB TX FPGA	DM-TX-200, DM-TX-200-2G	41	
DigitalMedia™ HDMI + RGB 8G+ 2G TX	DM-TX-200-C-2G	1.2911.00047	329
DigitalMedia™ HDMI + RGB 8G+ 2G TX FPGA	DM-TX-200-C-2G	19	
DigitalMedia™ HDMI + RGB 8G+ transmitter	DM-TX-201-C	1.2911.00046	329
DigitalMedia™ HDMI + RGB 8G+ TX FPGA	DM-TX-201-C	48	
DigitalMedia™ HDMI + RGB 8G fiber transmitter	DM-TX-201-S	1.2911.00027	322
DigitalMedia™ HDMI + RGB 8G fiber TX FPGA	DM-TX-201-S	64	
DigitalMedia™ 1U transmitter, DM-CAT	DM-TX-300N	1.2625.00013	268
DigitalMedia™ 1U transmitter, DM-CAT FPGA	DM-TX-300N	23	
DigitalMedia™ 1U transmitter, fiber	DM-TX-300N-F	1.2456.00045	268
DigitalMedia™ 1U transmitter, fiber FPGA	DM-TX-300N-F	23	
DigitalMedia™ HDMI + RGB transmitter 3G	DM-TX-400-3G	1.2625.00028	268
DigitalMedia™ HDMI + RGB transmitter 3G FPGA	DM-TX-400-3G	7	
DigitalMedia™ HDMI + DP +RGB transmitter	DM-TX-401-C	1.2911.00046	329
DigitalMedia™ HDMI + DP +RGB transmitter	DM-TX-401-S	1.2911.00027	322
DigitalMedia™ 4K dual HDMI + RGB 8G+ transmitter	DM-TX-4K-302-C	1.2911.00067	350
DigitalMedia™ 4K HDMI + RGB 8G+ transmitter	DM-TX-4K-202-C	1.2911.00067	350
DigitalMedia™ 4K 8G+ single gang transmitter	DM-TX-4K-100-C-1G	1.3209.00023	343
DigitalMedia™ repeater, DM-CAT	DM-DR	1.1498.00021	69

* Denotes new or updated firmware compared to PUF 2.60 (see revision history for details)

Included Firmware – DM input/output cards

Device name	Device model number	Firmware included	Minimum Bootloader
DigitalMedia™ 4K HDMI input card	DMC-4K-HD & DMC-4K-HD-DSP	1.2911.00057	329
DigitalMedia™ 4K HDMI input card DSP code	DMC-4K-HD-DSP	5.5.0	
DigitalMedia™ 4K HDMI output card	DMC-4K-HDO	1.2911.00054	329
DigitalMedia™ 4K HDMI output card core	DMC-4K-HDO	1.114.1.188	
DigitalMedia™ 4K 8G+ output card	DMC-4K-CO-HD	1.2911.00054	329
DigitalMedia™ 4K 8G+ input card	DMC-4K-C & DMC-4K-C-DSP	1.2911.00057	329
DigitalMedia™ 8G+ input card	DMC-C and DMC-C-DSP	1.2911.00057	329
DigitalMedia™ 8G+ input card FPGA	DMC-C and DMC-C-DSP	5	
DigitalMedia™ 8G+ input card DSP code	DMC-C-DSP	3.4.5	
DigitalMedia™ 8G+ output card	DMC-CO-HD	1.2625.00031	268
DigitalMedia™ 8G+ output card FPGA	DMC-CO-HD	40	
DigitalMedia™ DM-CAT input card	DMC-CAT and DMC-CAT-DSP	1.2456.00031	69
DigitalMedia™ DM-CAT input card FPGA	DMC-CAT and DMC-CAT-DSP	60	
DigitalMedia™ DM-CAT input card DSP code	DMC-CAT-DSP	3.4.5	
DigitalMedia™ DM-CAT output card	DMC-CATO-HD	1.1498.00021	69
DigitalMedia™ DM-CAT output card FPGA	DMC-CATO-HD	39	
DigitalMedia™ DVI & RGBHV input card	DMC-DVI	1.2625.00013	268
DigitalMedia™ DVI & RGBHV input card FPGA	DMC-DVI	16	
DigitalMedia™ fiber input card	DMC-F and DMC-F-DSP	1.2456.00045	69
DigitalMedia™ fiber input card FPGA	DMC-F and DMC-F-DSP	58	
DigitalMedia™ fiber input card DSP code	DMC-F-DSP	3.4.5	
DigitalMedia™ fiber output card	DMC-FO	1.1498.00021	69
DigitalMedia™ HDMI input card	DMC-HD & DMC-HD-DSP	1.2911.00057	329
DigitalMedia™ HDMI input card FPGA	DMC-HD & DMC-HD-DSP	56	
DigitalMedia™ HDMI input card DSP code	DMC-HD-DSP	3.4.5	
DigitalMedia™ HDMI output card	DMC-HDO	1.2761.00017	78
DigitalMedia™ 8G fiber input card	DMC-S/S2 & DMC-S/S2-DSP	1.2911.00057	329
DigitalMedia™ 8G fiber input card FPGA	DMC-S/S2 & DMC-S/S2-DSP	3	
DigitalMedia™ 8G fiber input card DSP code	DMC-S/S2-DSP	3.4.5	
DigitalMedia™ SDI input card	DMC-SDI	1.2911.00003	322
DigitalMedia™ SDI input card FPGA	DMC-SDI	40	
DigitalMedia™ 8G fiber output card	DMC-SO/S2O-HD	1.2911.00020	322
DigitalMedia™ 8G fiber output card FPGA1	DMC-SO/S2O-HD	14	
DigitalMedia™ 8G fiber output card FPGA2	DMC-SO/S2O-HD	15	
DigitalMedia™ Streaming input card	DMC-STR	1.2911.00043*	329*
DigitalMedia™ Streaming input codec OS	DMC-STR	1.0002.00026*	
DigitalMedia™ Streaming output card	DMC-STRO	1.2911.00043*	329*
DigitalMedia™ Streaming output card codec	DMC-STRO	1.001.0000*	
DigitalMedia™ Streaming output card scaler	DMC-STRO	3	
DigitalMedia™ analog video input card	DMC-VGA	1.2911.00017	322
DigitalMedia™ analog video input card FPGA	DMC-VGA	11	
DigitalMedia™ analog video input cards	DMC-VID-BNC, -RCA-A, -RCA-D	1.1592.00036	69
DigitalMedia™ security camera input card	DMC-VID4	1.1498.00021	69

Software Tool Compatibility

The following SW Tool versions (or higher) are recommended:

Device Database	83.00.001.00
Crestron Database	62.00.002.00
SIMPL Windows	4.07.03.00
Crestron Toolbox	2.43.434.00

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DigitalMedia PUF 2.61.00 is a bug fix/maintenance release primarily targeted at DMC-STR and DMC-STRO cards.

Important Upgrade and Downgrade Notes

Please be aware of the following before upgrading to this PUF:

- 1) Special steps must be taken to downgrade DM-MD32x32 CPU cards from DM PUF 2.50 or later to PUF 2.48 or prior. Please see Crestron OLH ID 1285 for details. Other DM products are unaffected.
- 2) Several DM cards have large firmware files and can take longer to update than previous DM products:
DMC-STR: Up to 30 minutes per group of 4 cards.
DMC-STRO: Up to 17 minutes per group of 4 cards.
- 3) To minimize upgrade time, it is recommended to stop active DMC-STR/STRO streams prior to performing a PUF upgrade and ensure the PC is on the same network as the streaming cards.

Recommended Streaming Settings

When pairing the DMC-STR with the DMC-STRO, it is recommended to stream via RTP with initiation by receiver. Previous bandwidth and format restrictions have been removed.

With the release of PUF 2.51, the default ports used by the DMC-STRO have changed. Port numbers used in existing installations will not change on firmware upgrade, but they will change on card or system restore. Also, new port numbers applied to systems upgrading from pre-PUF 2.51 code will not be applied until after card restore. Please see OLH 5552 for details.

If the DMC-STR is unable to connect to a third-party encoder (e.g., an IP Camera), re-attempt to connect by adding “?rtsp_tcp=yes” at the end of the URL (without quotations).

New Features

- Crestron Toolbox™ v2.43.434.00 now supports SFTP upgrades via PUF Tool for the DMC-STR codec which will allow faster upgrade speeds.

Issues Fixed

- Improved streaming stability of the DMC-STR and DMC-STRO.
- Improved DMC-STR and DMC-STRO MPEG-2 TS compatibility and performance.
- Improved stability issues with DMC-STRO and DMC-STR Multicast via UDP streams.
- Streaming unsupported audio formats (e.g., G.711) can cause the DMC-STR to lock up.
- Network problems can sometimes cause the DMC-STR to stop decoding a stream.
- Improved compatibility with IC Realtime ICIP-B2000 Camera.
- Fixed Audio/Video sync issues in By Transmitter mode.

Open Issues

- The DMC-STR may report a resolution of 0x0@0 when streaming from certain third-party IP cameras.
- Apple keyboard does not connect reliably to RMCs.
- All TXs (except TX-401-XX): HDMI audio unreliable with 480i video. All other resolutions are ok.
- On streaming cards, support for elapsed seconds, bitrate and initiator feedbacks have been removed to work around Toolbox stability issues.

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