mFARM

Overview

MOG's mFARM is a turnkey solution that will give you the capability and maximum flexibility to perform multiple tasks in a single interface. You can choose from a set of powerful but compact media servers, that'll fit your workflow needs.

All mFARM servers can manage and execute all media operations including record, ingest, transcode, playback, and also stream, encode, and decode.

Models

Grand av

This boosted Dell server supports QFHD/FHD/HD/SD video gateways for recording, ingesting, transcoding, monitoring, and playout operations.

It includes XAVC or AVC-Ultra hardware acceleration and comes with 8TB local storage, PSU redundancy, and an operating system drive.

Grand io

This boosted Dell server supports QFHD/FHD/HD/SD video gateways for recording, ingesting, transcoding, monitoring, playout, streaming, encoding, and decoding operations.

It comes with 8TB local storage, PSU redundancy, and an operating system drive.

Grand p

This boosted Dell server supports QFHD/FHD/HD/SD video gateways for ingesting and transcoding operations.

Additionally, it features PSU redundancy and an OS drive, with the possibility of being equipped with local storage to provide more flexibility and increased capacity.

Grand s

This boosted Dell server supports FHD/HD/SD video gateways for ingesting and transcoding operations.

Additionally, it features PSU redundancy and an OS drive, with the possibility of being equipped with local storage to provide more flexibility and increased capacity.

Densu s2

This compact dual-node rack server supports ingest and transcode assets to internal house formats.

Easily handle mission-critical workloads while maintaining security, reliability, and control at the heart of your facility.

Densu s2.io

This compact dual-node rack server supports recording, ingesting, transcoding, monitoring, playout, and streaming operations in 3G-SDI.

This cost-effective rack server supports FHD/HD/SD, and the dual node configuration ensures maximum flexibility and reliability for your daily tasks.

Densu r2

This dual-node rack server supports ingesting and transcoding assets to internal house formats and was designed to deliver outstanding performance while reducing costs. Easily handle mission-critical workloads while maintaining security, reliability, and control at the heart of your facility.

It has a redundant power supply and the possibility of being equipped with local storage to provide more flexibility and increased capacity.

Densu r2.io

This flexible and compact dual-node media server is optimized for production and distribution needs. It supports FHD/HD/SD video gateways for recording, ingesting, transcoding, monitoring, and playout operations.

It has a redundant power supply and the possibility of being equipped with local storage to provide more flexibility and increased capacity.

Densu ssd 30TB

High-density 2U storage server with 2x 10Gb network attached.
It has a redundant power supply, a dedicated hardware RAID controller, and 30TB of storage.

Densu ssd 60TB

High-density 2U storage server with 2x 10Gb network attached.
It has a redundant power supply, a dedicated hardware RAID controller, and 60TB of storage.

Densu ssd 120TB

High-density 2U storage server with 2x 10Gb network attached.
It has a redundant power supply, a dedicated hardware RAID controller, and 120TB of storage.

Technical Specifications

Grand Models

mFARM		Grand s	Grand p	Grand io	Grand av
System	**Platform**	Dell R750	Dell R750	Dell R750	Dell R750
	GPU	2x Nvidia A2	2x Nvidia A2	2x Nvidia A2	2x Nvidia A2
	Video IO	-	-	4x DeckLink 8K Pro	2x DeckLink 8K Pro
	AVC Hardware Encoder	-	-	-	2x Matrox
	Storage Drive	-	-	8TB SSD	
	Operating System Drive	480GB RAID 1		480GB RAID 1	
	Operating System	Windows 10 Enterprise (LTSC)		Windows 10 Enterprise (LTSC)	
Connectivity	**Networking** **1Gb Ethernet Port**	2	2	2	2
	10Gb Ethernet Port SFP+	2	2	2	2
	Video **VGA Out**	1	1	1	1
	USB **2.0**	1	1	1	1
	3.0	1	1	1	1
	BNC 12G In/Out	-	-	16	8
	Ref. In	-	-	4	2
	Power Requirements	Dual 750W	Dual 1400W	Dual 1400W	Dual 1400W
	Peripheral Module** **LTC Input**	-	-	1	1
	Audio Out	-	-	1	1
	Breakout Connector	-	-	1	1
	Breakout Cable** **RS422**	-	-	4	4
	GPO branch with 4 outputs	-	-	1	1
	GPI branch with 4 inputs	-	-	1	1
Other	**Dimensions & Weight**	2RU, 772x482x86.8mm (D, W, H), ~40 kg		2RU, 772x482x86.8mm (D, W, H), ~40 kg	
	Delivery Packaging	970x660x310mm (D, W, H), ~45Kg		970x660x310mm (D, W, H), ~45Kg	
	Temperature **Storage**	(–40°C to 65°C (–40°F to 149°F))**		–40°C to 65°C (–40°F to 149°F)	
	Continuous Operation	10°C to 35°C (50°F to 95°F)		10°C to 35°C (50°F to 95°F)	
	What is Included **Power Cable**	2x C13 to C14		2x C13 to C14	
	Other	Static rails for 2/4-post racks		Static rails for 2/4-post racks	

** Not included by default

Densu Models

mFARM		Densu s2	Densu s2.io	Densu r2	Densu r2.io
System	**Platform**	Densu 1U	Densu 1U	Densu 2U	Densu 2U
	Video IO	-	2x DeckLink miniDuo2	-	2x DeckLink miniDuo2
	Operating System Drive	480GB		480GB	
	Operating System	Windows 10 Enterprise (LTSC)		Windows 10 Enterprise (LTSC)	
Connectivity	**Networking** — 1Gb Ethernet Port	2	2	2	2
	Networking — 2.5Gb Ethernet Port	2	2	2	2
	Video — Display Port	2	2	2	2
	Video — HDMI	2	2	2	2
	USB — 2.0	4	4	4	4
	USB — 3.0	8	8	8	8
	HD BNC I/O	-	8	-	8
	Ref. In	-	2	-	2
	Live IP Port**	-	2	-	2
	LTC Input	-	2	-	2
	Audio Output	2	2	2	2
	Breakout Connector	-	2	-	2
	Power Requirements	Single 300W	Single 300W	Dual 300W	Dual 300W
	Breakout Cable — RS422	-	8	-	8
	Breakout Cable — GPO branch with 4 outputs	-	2	-	2
	Breakout Cable — GPI branch with 4 inputs	-	2	-	2
Other	**Dimensions & Weight**	1RU, 245x484x42.5mm (D, W, H), ~7Kg		2RU, 245x484x89mm (D, W, H), ~14Kg	
	Delivery Packaging	580x380x250mm (D, W, H), ~8Kg		580x380x250mm (D, W, H), ~15Kg	
	Temperature — Storage**	-		−40°C to 65°C (−40°F to 149°F)	
	Temperature — Continuous Operation	10°C to 32°C (50°F to 89.6°F)		10°C to 32°C (50°F to 89.6°F)	
	What is Included — Power Cable	1x C13 to C14		2x C13 to C14	
	What is Included — Other	4x rack mount screws		4x rack mount screws	

** Not included by default

Storage Models

mFARM		Densu ssd 30TB	Densu ssd 60TB	Densu ssd 120TB
System	**Platform**	Densu 2U ssd	Densu 2U ssd	Densu 2U ssd
	Storage Drive	8x 3840GB Hot plug 2.5"	16x 3840GB Hot plug 2.5"	16x 7680GB Hot plug 2.5"
	Operating System Drive	240GB RAID 1	240GB RAID 1	240GB RAID 1
	Operating System	Windows Storage Server 2019 x64	Windows Storage Server 2019 x64	Windows Storage Server 2019 x64
	RAID	0, 1, 5, 6, 10, 50 and 60 with Hot Spare drive option		
Connectivity	**Networking** — **1Gb Ethernet Port**	2	2	2
	Networking — **10Gb Ethernet Port SFP+**	2	2	2
	Networking — **IPMI Network Interface**	1	1	1
	Video — **VGA Out**	1	1	1
	USB — **2.0**	4	4	4
	USB — **3.0**	2	2	2
	Power Requirements	Dual 300W	Dual 300W	Dual 300W
Other	**Dimensions & Weight**	2RU, 245x484x89mm (D, W, H), ~14Kg		
	Delivery Packaging	580x380x250mm (D, W, H), ~15Kg		
	Temperature — **Storage**	−40°C to 65°C (−40°F to 149°F)		
	Temperature — **Continuous Operation**	10°C to 32°C (50°F to 89.6°F)		
	What is Included — **Power Cable**	2x C13 to C14		
	What is Included — **Other**	4x rack mount screws		

Products

Part Number	Product	Description
mfgrav	Grand av	12G-SDI media server for XAVC and AVC-Ultra formats with redundant power supply and storage
mfgrio	Grand io	12G-SDI media server with redundant power supply and storage
mfgrdr	Grand p	12G-SDI media server with redundant power supply
mfgrds	Grand s	3G-SDI media server with redundant power supply
mfdns2	Densu s2	1RU dual-node compact media server for ingesting and transcoding workflows in 3G-SDI
mfdns2io	Densu s2.io	1RU dual-node compact media server for hybrid workflows in 3G-SDI
mfdnr2	Densu r2	2RU dual-node compact media server for ingesting and transcoding workflows in 3G-SDI
mfdnr2io	Densu r2.io	2RU dual-node compact media server for hybrid workflows in 3G-SDI
mfdnssd-30	Densu ssd 30TB	Storage server with 30TB local storage
mfdnssd-60	Densu ssd 60TB	Storage server with 60TB local storage
mfdnssd120	Densu ssd 120TB	Storage server with 120TB local storage

Available Options

Part Number	Options Description	Grand Models			
		Grand av	**Grand io**	**Grand p**	**Grand s**
pcbx	Peripheral module - Optional MOG module to expand I/O available with 1x LTC, 1x audio output, 1x GPI, 1x GPO and 4x RS422	✓	✓		
-	IO card - Scale the number of inputs and outputs	✓	✓		
-	IP live card* - Add up to 4 UHD IP channels into your media production infrastructure	✓	✓		
-	AVC encoder card - AVC-Ultra hardware encoder accelerator	✓			

* Each Live IP card effectively replaces 8 SDI input/output channels. In the Grand io model, this flexibility allows for the option to transition to a hybrid appliance supporting both SDI and IP, or with the integration of two Live IP cards, all current SDI inputs/outputs effortlessly transition to IP-based connections. In the Grand av model, the addition of a Live IP card seamlessly replaces all existing SDI inputs/outputs.

Part Number	Options Description	Densu Models			
		Densu s2	**Densu s2.io**	**Densu r2**	**Densu r2.io**
s2ioiplk	IP live kit - IP media production infrastructure	✓	✓		
r2ioiplk	IP live kit - IP media production infrastructure			✓	✓

Part Number	Options Description	Storage Models		
		Densu ssd 30TB	**Densu ssd 60TB**	**Densu ssd 120TB**
mfdnssdwkg	Workgroup - Quota management for each workspace: dynamic sizes and workspace management for users or groups	✓	✓	✓

Contact our sales team at sales@mog-technologies.com to find out how to purchase or in case you need more information.