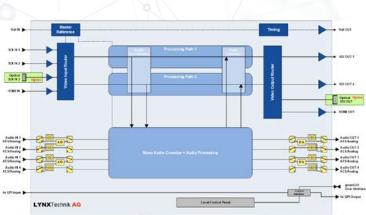
GM 6825

greenMachine® callisto+





Description

The greenMachine callisto+ platform provides for simultaneous processing of up to two individual SD/HD/3G SDI signals. The hardware itself is a powerful general-purpose audio and video processing appliance that can perform many different functions using one of the available greenMachine configurations (constellations), i.e. 2CUPXD.

The user can select and license just the constellation, or multiple constellations required at the point of order and can switch between these licensed constellations at any time. Additionally, they may purchase licenses for additional constellations in the future. As all constellations are pre-installed, unlicensed constellations can be deployed for testing and proof of system concept but will show watermarks at the outputs.

Fiber SFP options are available for one SD/HD/3G SDI input and output. The Nova controller (full remote control) is included in the basic framework.

Features

- 2x 3G general purpose A/V processing appliance
- Internal input and output signal routers
- Compatible with available greenMachine callisto+ constellations
- Integrated control panel with color display for live image monitoring, audio level meters, status indication and menu driven control interface
- Small footprint: 1RU high x half 19" rack width
- 2x electrical SD/HD/3G SDI inputs. Level A and Level B DL
- 2x electrical SD/HD/3G SDI outputs. Level A and Level B DL
- 1x HDMI input (1.4b) and 1x HDMI output (1.4b) up to 3G
- 1x Analog reference input and output (bi-level or tri-level sync)
- 1x Electrical LAN I/O connection
- 4x Balanced analog audio or digital AES Audio inputs
- 4x Balanced analog audio or digital AES Audio outputs
- 4x GPI inputs and 4x GPI outputs
- 1x Optional SDI fiber I/O (basic fiber or CWDM): SD/HD/3G
- 1x Optional Ethernet LAN fiber connection (basic or CWDM)
- Optional redundant power protection
- Optional 19" rack frame
- Nova controller included: Full remote control using greenGUI control software
- Full SNMP V2 support

Constellation

| SDTV Formats | rmats 525 / 59.94Hz 625 / 50Hz | | GMC- 2CUPXD | 2 Channel 3G SDI Up/Down/Cross Converter A broadcast quality 3G SDI Up/Down/Cross converter that provides a multitude of conversion and scaling possibilities. | |
|----------------------------|---|---|---|--|--|
| HDTV Formats | 1080i / 50Hz 1080i / 59.94Hz 1080i / 60Hz 1080p / 23.98Hz 1080p / 24Hz 1080p / 25Hz 1080p / 29.97Hz | 1080p / 30Hz 1080psf / 23.98Hz 1080psf / 24Hz 1080psf / 25Hz 720p / 23.98Hz 720p / 24Hz 720p / 25Hz | 720p / 29.97Hz 720p / 30Hz 720p / 50Hz 720p / 59.94Hz 720p / 60Hz | | The powerful input cropping functionality enables a full Region of Interest (ROI) selection and in addition, the output image size can be adjusted |
| 3GBit/s Formats Level A | 1080p / 50Hz 1080p / 59.94Hz 1080p / 60Hz | | | | |

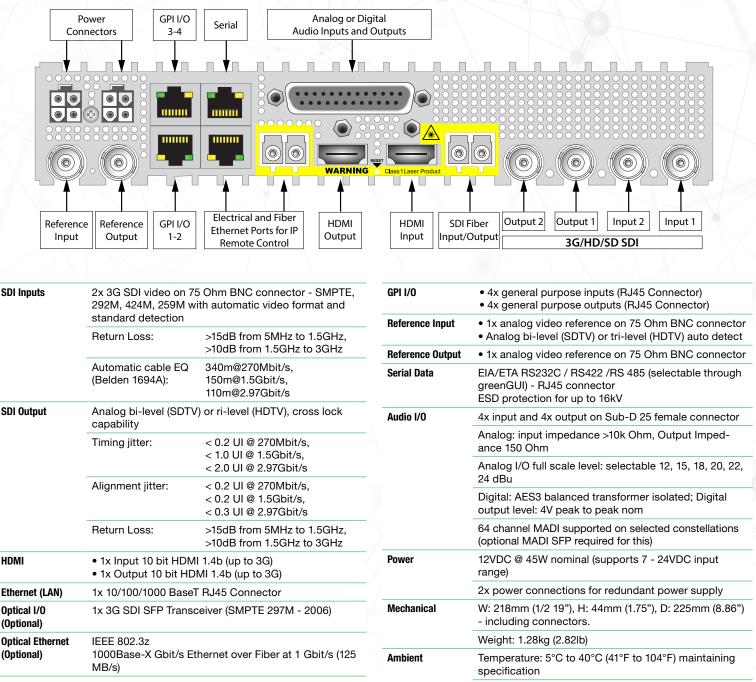
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Supported SDI Formats

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Hardware Specifications



Humidity: 90% maximum, non-condensing

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GM 6825

greenMachine® callisto+

Options

RFR 6000 - 1RU 19" Rack Mount Chassis

Rack mounting hardware which can accommodate one or two greenMachines in 1RU of rack space which also securely mounts the power supplies.

Note: Two power supplies can be mounted onto one RFR 6000. Please see more information in the RFR 6000 quick reference guide.



One greenMachine in Rack Mount

RPS A100 - AC to DC Power Supply 12V/8A

The RPS A100 AC to DC Desktop power supply unit provides 100 watts of continuous output power. The power supply is equipped with IEC320-C14 AC inlet.

Plugs are available for regions EU, US and UK as well as an option without a power plug (N). When ordering just add the region shorthand at the end of the module name.



Fiber Options

The callisto+ is equipped with two SFP sockets which can accommodate a variety of plug in SFP fiber I/O options. One socket is for SDI connectivity and the other is for Ethernet. Fiber options can be added at any time.

| Basic 3G SDI Vid | Power / Sensitivity | | | |
|--|--|--------|------------------------|--|
| OH-TX-1-LC/ST/SC | H-TX-1-LC/ST/SC SDI Fiber TX SFP - LC/SC or ST - 1310nm | | | |
| OH-RX-1-LC/ST/SC | SDI Fiber RX SFP - LC/SC or ST - 1270 - 1610nm | -16dBm | | |
| 3G SDI Video Fiber Transceiver | | | Power / Sensitivity | |
| OH-TR-1-LC | SDI Fiber Transceiver, Singlemode - LC - 1310nm | -5dBm | -18dBm | |
| OH-TR-0-850-MM | SDI Fiber Transceiver, Multimode - LC - 850nm | -5dBm | -15dBm | |
| CWDM SDI Video Transceiver (TR) (12G variants support 1. | Power / Sensitivity | | | |
| OH-TR-4-XXXX-LC XXXX = Wavelength | SDI Fiber Transceiver, Singlemode - CWDM capable - 40km* - LC 18 wavelengths acc. to ITU T G692.2: 1270nm through 1610nm. | -1dBm | 0 | |
| Basic Ethernet Fiber Transceiver | | | Power / Sensitivity | |
| OH-TR-51-LC | Ethernet Fiber Transceiver, Singlemode - 10km* - LC - 1310nm | -3dBm | -21dBm | |
| CWDM Ethernet Fiber Transceiver | | | Power / Sensitivity | |
| OH-TR-54-XXXX-LC XXXX = Wavelength | Ethernet Fiber Transceiver, Singlemode - CWDM capable - 40km* - LC 18 wavelengths acc. to ITU T G692.2 | 0dBm | -21dBm | |

* Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of fiber cable and accumulated optical losses in the fiber link. Determine link losses and perform optical budget calculations to ensure correct operation. More SFP options are available.

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RXT 6001 19" Rack Extension for RFR 6000

The greenMachine is ideally suited for standalone applications but this powerful processing platform reaches its full potential when used within a system design.

The RXT 6001 is a compact and flexible rack extension for RFR 6000. It can be setup to hold up to four RPS A100 power supplies.



ABS Case for greenMachine

The transport case is perfect to keep your greenMachine[®], cables and documents organized and in one place, while also protecting it from enviromental influences. With it's study design, our ABS Case is the ideal partner to transport your greenMachine[®] whenever it is not wired in a rack, standalone or any other system you can think of.

The hard shell case protects your greenMachine[®] from most impacts in an average, busy work environment, while the inner foam coating prevents it from being scratched by cables, connectors or other equipment that can also be stored inside the case.

Ordering Information

| greenMachine callisto+ Hardware | | | | | | | |
|--|--|--------------------|--|--|--|--|--|
| GM 6825 EU (N/EU/US/UK) | greenMachine callisto+ (Processor, OS and NOVA) Power plug Variants (please specify when ordering) GM 6825 N Power Supply without Power Cord GM 6825 EU Power Supply with EU Power Cord GM 6825 US Power Supply with US Power Cord GM 6825 US Power Supply with US Power Cord GM 6825 US Power Supply with US Power Cord | EAN: 4250479328150 | | | | | |
| greenMachine callisto+ Constellation License | | | | | | | |
| GMC-2CUPXD | greenMachine callisto+ 2CUPXD constellation: Dual Channel 3G Up/Down/Cross Converter (License only- includes no hardware) | EAN: 4250479328136 | | | | | |
| Accessories and Power Supply | | | | | | | |
| RFR 6000 | 1 RU 19" Rack Mount Chassis | EAN: 4250479324466 | | | | | |
| RXT 6001 | 19" Rack Frame Extension for RFR 6000 | EAN: 4250479326507 | | | | | |
| RPS A100 (N/EU/US/UK) | AC to DC Desktop Power Supply Module 12V/8A (with None / EU / US / UK plug) | EAN: 4250479327955 | | | | | |

For greenMachine the following regulatory and safety standards apply:

CE: EN 55103-1/1996, EN 55103-2 /1996, EN 60950-1/2006 Following the provisions of 2004/108/EC and 2006/95/EC directives. FCC: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15, Subpart B of the FCC Rules.

The RPS A100 power supply (EA11011D-1200) complies with the following safety standards: UL/cUL 62368-1, TUV EN 62368-1, CB IEC 62368-1, FCC, CE, BSMI, PSE, RCM, IRAM

