

Bi-directional Transport for greenMachine[®] titan



Features

- Multi-signal bidirectional transport solution through bi-directional 12G SDI channel
- SDI, HDMI and Optical inputs and outputs
- 4x Audio transport in both directions
- 4x GPIO in both directions
- 1x Serial I/O (UART)
- 1x 1Gbit Ethernet transport
- 4 Audio inputs and outputs switchable between analog and digital
- 1x MADi via optical (3G)
- Included transceivers and bidirectional SFP modules for full signal transport
- Timed reference output
- Integrated local control panel for configuration and monitoring
- Extensive monitoring features such as image previews and audio level meters available on the local control panel and control software
- Full remote control using greenGUI control software CustomControl Panels
- Full SNMP v2 support
- Optional video and Ethernet CWDM fiber I/O with all 18 wavelengths selectable
- Optional redundant power protection
- Optional 19" rack frame

Description

The BIDI Transport constellation is a cost-effective bidirectional transport solution that allows transportation of video, audio, Ethernet, and GPI efficiently across two greenMachine Titan hardware devices. It is a flexible solution for applications that require an exchange of multiple signals consisting of video, audio, and GPIs, on two single fiber links over long distance. The Ethernet control information can be transported over a single fiber link over bidirectional SFPs. A Master/Slave model of communication is used between the two greenMachine Titan hardware devices where one machine will act as a Master device while the other will be a Slave.

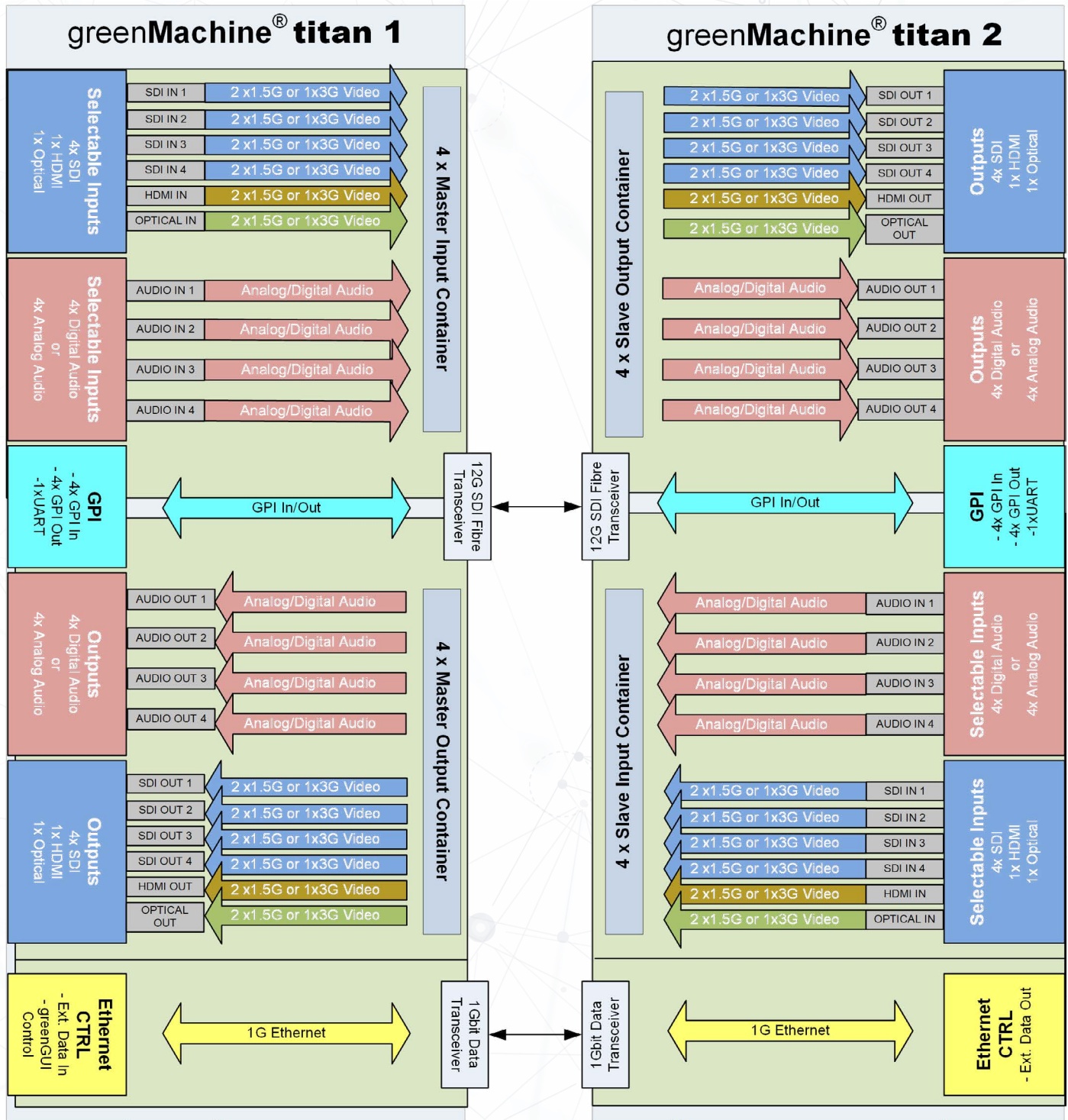
Six HD signals (1.485Gbit/s) or four 3G signals (2.97Gbit/s), One 12G Signal (12 Gbit/s), or combination of signals up to 12Gbit/s, 4 external analog or digital Audio Signals and four GPIs can be transported via the fiber ports in both directions, simultaneously. The reference of one of the two greenMachines (aka the Master) is also transmitted to the other greenMachine (aka the Slave) and can be used in the remote location to synchronize cameras, as an example. A 1Gbit ethernet transport link provides easy control of the two greenMachine via greenGUI software.

For the signal transport to occur which consists of video, audio, and GPIs, the two greenMachine Titans need to be connected via two single-mode fiber cables over transceiver SFPs. For the Ethernet control signal transmission, one single-mode fiber cable is required over bidirectional SFPs.

The greenMachine titan hardware comes with a fully featured local control interface with an LCD which displays image previews and audio level meters of the processed video paths in addition to the graphical user interface.

Get the full story at www.green-machine.com

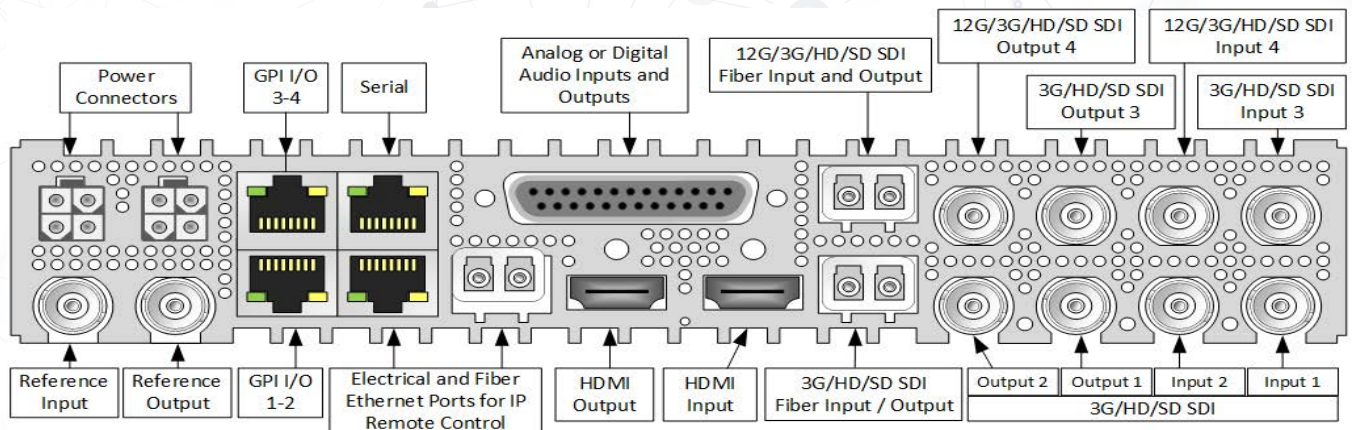
Functional Diagram



For more details and to see the complete portfolio of greenMachine constellations, please visit:

www.green-machine.com

Connections



Supported SDI Formats

| HDTV Formats | 1080i / 50Hz | 1080p / 30Hz | 720p / 29.97Hz |
|--------------|-----------------|----------------|----------------|
| | 1080i / 59.94Hz | 1080psf / 25Hz | 720p / 30Hz |
| | 1080i / 60Hz | 720p / 23.98Hz | 720p / 50Hz |
| | 1080p / 25Hz | 720p / 25Hz | 720p / 59.94Hz |
| | 1080p / 29.97Hz | | 720p / 60Hz |

| 3Gbit/s Formats Level A and B | 1080p / 50Hz |
|----------------------------------|-----------------|
| | 1080p / 59.94Hz |
| | 1080p / 60Hz |

| 12Gbit/s Formats Quad Link 2SI Level A and b (4 x 3Gbit/s) | 3840 x 2160p / 50Hz |
|---|------------------------|
| | 3840 x 2160p / 59.94Hz |
| | 3840 x 2160p / 60Hz |

Options

RFR 6000 - 1RU 19" Rack Mount Chassis

The RFR 6000 is a compact 19" rack mounting solution occupying 1RU of vertical rack space. It can be configured to accommodate one or two greenMachines. In either configuration the RFR 6000 also provides innovative mounting options for one or two of the external RPS 6120 "brick" power supplies both of which can be securely mounted within the 19" 1RU footprint.



RXT 6001 - Rack Frame Extension for RFR 6000

The RXT 6001 is a compact and flexible rack extension for RFR 6000. It can be setup to hold up to four RPS 6120 power supplies. For optimum placement within an equipment room, greenMachine hardware can be mounted in a 19" rack enclosure, the RFR6000 1RU rack frame option.



RPS 6120 - Redundant Power Supply

Each greenMachine includes the RPS 6120 primary power supply, an external desktop "brick" style power supply. An optional second power supply can be added for redundant protection. The greenMachines support seamless auto changeover between primary and redundant power supply. LEDs on the front control panel of the greenMachine hardware indicate the status of the supplies.



Ordering Information

GMC-BIDI-Transport
RFR6000
RXT6001
R PS 6120 EU
R PS 6120 UK
R PS 6120 US

BIDI Transport Constellation
1 RU 19" Rack Mount Chassis
Rack Frame Extension for RFR6000
Desk Power supply with EU cord
Desk Power supply with UK cord
Desk Power supply with US cord

EAN: 4250479326088
EAN: 4250479324466
EAN: 4250479326507
EAN: 4250479324343
EAN: 4250479324350
EAN: 4250479324367