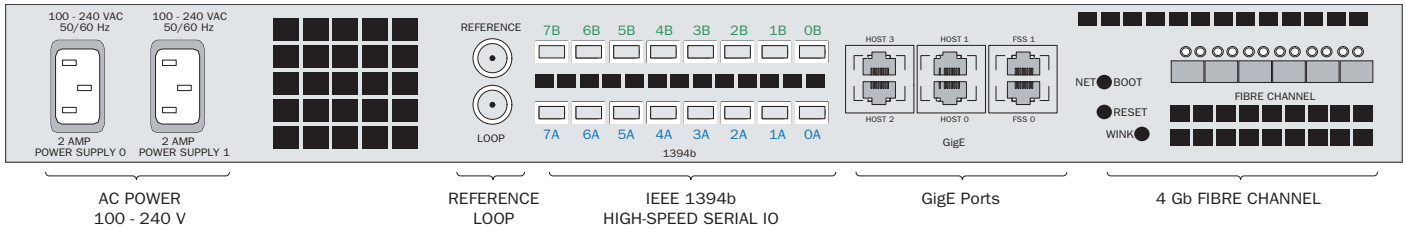


# Omneon MediaDirector 2102B



**MediaDirector 2102B – Rear Panel View**

The MediaDirector is the central server component of an Omneon Spectrum™ media server. The MediaDirector integrates file system, system management, communication and all connectivity including Fibre Channel, IEEE 1394 high-speed serial and Gigabit Ethernet. The Fibre Channel Interface provides multiple 4 Gbps data paths between the MediaDirector and the MediaStores, the storage subsystem. The IEEE 1394B high-speed serial interface connects the MediaDirector to MediaPorts for media playout and record. The Gigabit Ethernet connectivity is a standard implementation of high-speed Ethernet for file transfer and support of FTP, SMB and AFP (Apple® Filing Protocol) protocols.

## MediaDirector 2102B Specifications

Parameter	Specification	Detail
<b>Fibre Channel</b>	Fibre Channel Arbitrated Loop Control	6 x FC-AL loop interfaces, 2 or 4 Gbps, 12 x SFP transceivers (plug-in modules) supporting 12 x LC optical fiber interfaces (2 per loop).
<b>Ethernet</b>	4 Gigabit Ethernet Ports for customer use	Omneon API, Windows® File System Interface (SMB), FTP Server, Apple Filing Protocol. Ethernet performance depends on total available system bandwidth. Total system available bandwidth is affected by a number of factors including configuration and usage
<b>High-Speed Serial I/O</b>	IEEE 1394	8 x IEEE 1394B (800Mbps) buses. 16 x IEEE 1394 bilingual 9 pin copper connectors 2 connectors for each bus
<b>Reference</b>	Analog Black Burst Reference Input (Loop)	Reference Black Local Synchronization (2 x75 Ohm BNC)
<b>Environmental</b>	Operation Temperature Humidity	+10C to +35C. 10% to 80% non-condensing
<b>Safety</b>	USL/CNL Low Voltage Directive (73/23/EEC) including amendments	CAN/CSA C22.2 No. 950-95/UL1950, Third Edition EN60950: 1992, A1+A2+A3+A4 Safety of Information Technology Equipment
<b>EMC</b>	FCC Part 15, ICES-003 ICES-003 Directive of Electromagnetic (89/336/EEC) including amendments CISPR 22	Class A for Digital Equipment, USA Class A for Digital Equipment, Canada Compatibility EN55022:1998, EN55024:1998 Emissions from Information Technology Equipment Immunity for Information Technology Equipment
<b>Dimensions</b>	W: 44.3 cm (17.5 in) 48.3 cm (19.0 in) H: 4.4 cm (1.75 in) D: 54.6 cm (21.5 in) 55.2 cm (21.75 in) 56.7 cm (22.31 in)	Chassis only Including mounting brackets 1 RU Chassis front to chassis rear Chassis front to rear of BNC connectors Front of bezel to rear of BNC connectors (Front bezel extends forward [Max. 1.1 cm (0.4375 inches)] from chassis front edge and rack ear plane)
<b>Weight</b>	6.0 kg (13.5 lbs)	
<b>Power</b>	100-240V, 50-60Hz, 164 watts Total	Dual Redundant Power Supplies

## ■ PRODUCT SPECIFICATION

### Included Accessories

Qty	Description	Note
2	Power Cord	1.83 Meters (6 ft.)
8	Cable IEEE 1394 A-B	IEEE 1394a Male to IEEE 1394b Male, 2 meter (6.56 ft)
1	Rack Mount Hardware Kit	19 inch (standard)

### Cable Kits:

Fibre Channel cables must be ordered per system configuration. One or more of the following cables will be required:

Part Number	Description
<b>FCA-115-0F</b>	Fibre Channel Cable Kit, LC to LC optical fiber cable, 1m with two LC 4 Gbps SFP's
<b>FCA-315-0F</b>	Fibre Channel Cable Kit, LC to LC optical fiber cable, 3m with two LC 4 Gbps SFP's
<b>SP-0072-001</b>	4 Gbps Fibre Optic SFP for MediaDirector 2102B and MSS-4000 Series MediaStore

### Additional 2102B Notes:

- A single MediaDirector 2102B is capable of supporting both SD and HD channels simultaneously, as well as IP packet processing. Two processors are dedicated to handling real-time video processing and the other two handle high-speed Gigabit Ethernet traffic. Channel counts and maximum IP bandwidth are subject to total system bandwidth load and system configuration.
- The MediaDirector 2102B has an additional processor dedicated to handling the disk and file subsystems.
- A single MediaDirector 2102B provides eight IEEE 1394 buses available through 16 connectors evenly divided between the two real-time processors.
- The MediaDirector 2102B Fibre Channel interfaces allows the MediaDirector 2102B to control, read and write through each of the six independent Fibre Channel loops. The multiple Fibre Channel loops provide both increased maximum storage capacity and also redundant paths to every disk drive in the system. A system based on the MediaDirector 2102B can be expanded to a maximum of 18 MediaStores, each containing up to 16 disk drives.
- Two of the four available Gigabit Ethernet ports are dedicated to high-speed data transfers, such as FTP or sharing the file system with networked computers. The other two are used for control functions, such as communications with the SystemManager, non-real-time control of channels, system status, configuration management, and file management. There are also two Gigabit Ethernet ports (labeled FSS 0 and FSS 1) that are used solely for Omneon testing purposes.
- Up to four MediaDirector 2102B's can be connected to the same file system in order to build a video server with more bandwidth and redundancy than a single MediaDirector 2102B can provide. This EFS (Extended File Sharing) feature requires an Extended File Sharing License.

### Additional Features and Functions:

- **External Clock Synchronization** – A VITC decoder is provided for decoding TOD clock embedded in the black burst signal.
- **RAID** – Includes RAID video file protection and supports multiple RAID sets and support for hot spare configurations.
- **Resiliency** – The MediaDirector 2102B supports multiple diagnostic, monitoring and notification features for system resiliency and maximum up time and may be configured to automatically rebuild protected RAID sets in hot spare configurations.



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