

OMNISTAR® GX2

Optical Broadband Transmission Platform



The OmniStar GX2 provides increased module density, while continuing the OmniStar legacy of scalability, performance, and flexibility. The four rack-unit chassis accepts up to 16 Plug-n-Play application modules, minimizing headend space requirements. A two rack-unit mini-chassis is also available that holds three application modules. With superior 1310 nm and 1550 nm products, the OmniStar GX2 enables you to offer more revenue-generating services.

The universal platform and full complement of application modules can accommodate any system architecture. Enhanced with PowerPC® technology provided by Motorola, this next generation broadband platform brings newfound intelligence to traditional headend equipment. The high-performance chip, used in today's luxury automobiles to enable in-car networking, is the foundation of this denser, smarter, and more efficient design.

OmniStar GX2 is a fiber optic broadband transmission platform designed for the Broadband Hybrid Fiber/Coax Networks of tomorrow.

BENEFITS INCLUDE:

- High Module Density: Up to 16 application modules in a four rack-unit chassis provides 2.5 times the density of the previous OmniStar platform
- Intelligence: Contains high-performance PowerPC microcontroller by Motorola
- Flexibility: The universal chassis and full-complement of application modules accommodates any system architecture
- Quick-Swap Capability: Replacement modules are recognized and updated with settings pre-stored by the Control Module
- User-friendly, browser-style, local interface and downloadable firmware
- Redundant AC and/or DC powering options, even with 16 application modules
- Open Interface: Network Management interface supporting SNMP via Ethernet port
- Plug-n-Play application modules with rear mounted blind-mate RF connectors
- Energy Efficient: Designed with advanced integrated circuits for low power consumption
- Local status monitoring and control with optional shelf door unit and alphanumeric display



Product Description

OmniStar GX2 is a fiber optic broadband transmission platform for HFC networks. Two universal chassis are available that can accommodate the full-array of application modules. For high-density applications, the four rack-unit chassis holds up to 16 application modules. Redundant AC and/or DC power supply modules are easily accessible from the rear of the chassis. For remote locations that only require a few modules, the two rack-unit mini-chassis provides space and cost savings. The power supply and shelf display unit are integrated into the chassis.

The OmniStar GX2 design balances density with ease of use. The application modules, control module, and power supplies are all located in the compact chassis. The control module is loaded in the front for easy access to its Ethernet port. The configurable RF backplane provides flexibility for different connector types while maintaining blind-mate capability. Field-replaceable fans are located in the rear and convenient RF test points are located on the front of each module. Each OmniStar GX2 module uses the intelligent PowerPC microprocessor provided by Motorola. The powerful processor allows sophisticated control functions along with high integration. This single-chip design contains flash memory, random access memory, and analog to digital converters. All specific module information (firmware, bitmaps, menu structure, etc.) are stored in non-volatile memory.

OmniStar GX2 is engineered to maximize in-service time. Installing the Plug-n-Play modules is easy with blind-mate RF connectors at the rear and optical connectors at the front. When replacing modules, the unique Quick-Swap feature automatically configures the new module using the settings from the previous module. Firmware is downloadable and can be upgraded while the module remains in operation - no hardware changes are needed. Several communication methods are available for real-time system monitoring and control. A three-colored LED on each module indicates the general operating status. The optional shelf door unit with alphanumeric display, provides monitoring and control with simple push button navigation. Finally, a PC interface is available through an Ethernet port on the front of the control module. Using a standard Web browser the graphical user interface (GUI) provides a point-and-click method of configuring the shelf. For higher-level management, OmniStar GX2 can be easily connected to a remote Network Management System using the standard Ethernet SNMP interface. The full range of OmniStar GX2 application modules can accommodate most system architectures.

Application Modules

Model Type	Model Type
1310 nm Forward-Path Broadcast Transmitter	GX2-LM1000 series
1550 nm Forward-Path Broadcast Transmitter	GX2-EM870 series
1550 nm Forward-Path Targeted Services DWDM Transmitter	GX2-DM870 series
1550 nm Return-Path DWDM Transmitter	GX2-DM200 series
Erbium-Doped Fiber Amplifiers	GX2-OA100 series
Forward-Path Receiver	GX2-RX1000 series
Dual Return-Path Receivers Module	GX2-RX200 series
Digital Return-Path Transmitters	GX2-DRT Series
Digital Return-Path Receiver	GX2-DRR series
Optical Switch	GX2-OSW series
RF Switch	GX2-RSW series
RF Amplifier	GX2-RFA Series

Housing & Accessory Modules

Model Type	Model Type
4U Equipment Shelf	GX2-HSG series
AC Power Supply	GX2-PSAC10C
DC Power Supply	GX2-PSDC10C
Control Module	GX2-CM100B
Shelf Door Unit with display	GX2-SDU100B
Shelf Door Unit without display	GX2-SDU200B
2U Mini-Chassis	GX2-HSG-LITE-A

Specifications are subject to change without notice.

MGBI

Motorola, Inc.
Broadband Communications Sector
101 Tournament Drive
Horsham, PA 19044
1.800.523.6678
www.motorola.com/broadband



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