MICROSENS

Datasheet
Managed Multimode Extendermodule MSP800

Made
in
Germany
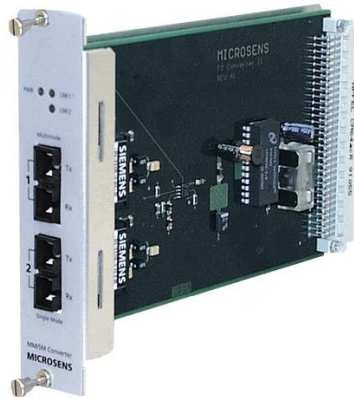
General

The constantly increasing demand for bandwidth and the growing physical expansion of existing data networks is leading to a rapid spread of fiber optic cables at all application levels.

Modern network infrastructures require open, fiber-optic-based systems that can be easily installed and flexibly adapted to changing requirements. With its MSP800 platform, MICROSENS offers a wide range of function modules both for the LAN and WAN area as well as for the implementation of telecommunications and industrial interfaces.

The core of the MSP800 consists of a slide-in chassis for mounting in 19" cabinets. A central power supply unit supplies all slide-in modules with power via a backplane. A redundant power supply unit can be installed for special requirements regarding fail-safe operation.

A large number of function modules ensure the passive and active implementation of all common interfaces. All plug-in units can be combined with each other in any order.

The product range includes
- Multimode / Single Mode Converter
- Wavelength converter,
- Converters and bridges for short and long haul applications
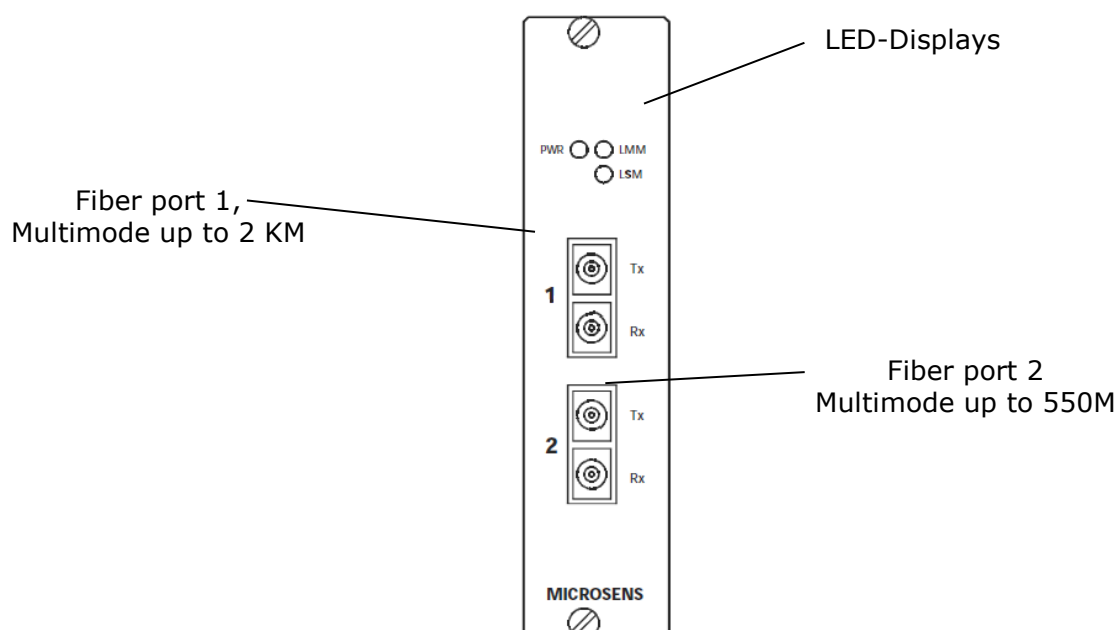- Gigabit Extender
- G.703 Converter

The managed multimode extender module for the MSP800 is used to extend a 1000Base-SX signal over the typical 550m (50µm/125) to a maximum of 2 km. A special optical laser is used for this.

The extender module can be remotely monitored and is always used in pairs.

Technical Details

Type   Managed Multimode Extendermodule MSP800

Connections   1x Multimode SC duplex (850nm)
                        1x Multimode SC duplex (extended)

Fiber Type   Multimode 50 or 62,5/125µm duplex

Data Rates   max. 1.25GBit/s

LED-Displays   *PWR*   Ready for operation
                        ALARM   not used
                        Line Link   Linksignal received on Fiber port 1
                        Local Link   Linksignal received on Fiber port 2

Power Supply   Via MSP800-Backplane with own fuse

Operating temp.   0..55 °C
Storage temp.   -20..80 °C
Humidity   5% up to 80 % non-condensing

Dimensions   1-Slot in MSP800 Chassis

Management   via Managementmodule MS416020-B

Layout

LED-Displays

Fiber port 1,
Multimode up to 2 KM

Fiber port 2
Multimode up to 550M

Configuration

The Gigabit Extender belongs to a wide range of functional modules for installation in modular plug-in systems from MICROSENS. In addition to desktop housings in individual versions, 19" chassis are available for accommodating up to 12 slide-in modules.
The extender can be integrated into existing SNMP / web-based management.
Optionally a second power supply unit can be installed for redundant power supply. In this case 10 converter slots can be used. In the case of a partial configuration, the unpopulated slide-in modules are covered with blank covers (MS416100). The blank covers are not included in the scope of delivery of the housing.
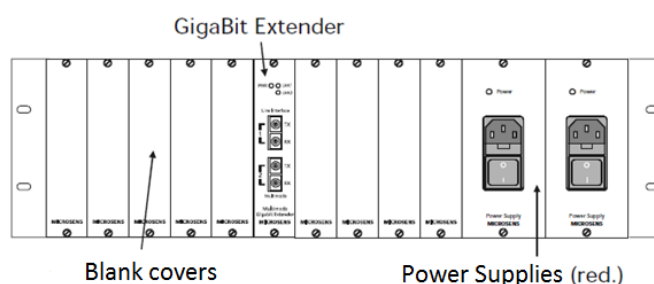
In addition to the 3U slide-in housing, a 1U housing for 3 slide-in modules (installed crosswise) is available. This has an integrated power supply unit (MS416006M), which can also be designed redundantly (MS416007M).

Management

The SNMP or web-based management capability of a system is provided by the management module (MS416020-B).
In order to access the data of the modules via SNMP, the integration of the data structure of the MIB into the existing network management is required. The structure of the MICROSENS-MIB can be downloaded from the management module via http-download. The MIB file is available in ASCII format.
The integration of the management into a network is done via the Ethernet connection (10/100Base-TX) of the management module. The management data are not transferred via the function module (here G.703) (outband management).

Visualization and configuration example using an SNMP management platform:
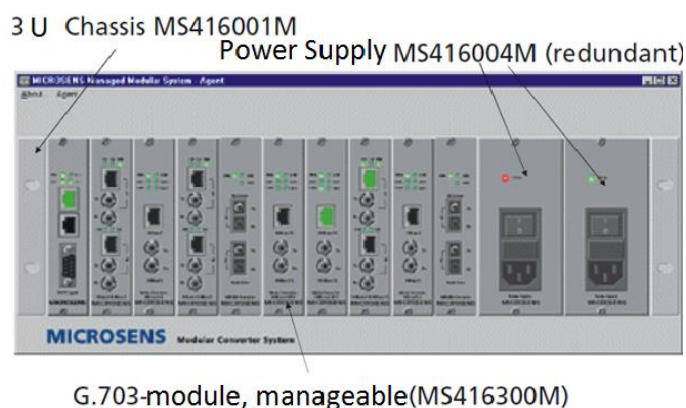
Order Information

Description	Aret.-No.
MSP800 Gigabit Multimode Extendermodule Local: Multimode 850nm SC duplex, Line: Multimode SC duplex, max. 2km	**MS416651M**