

english

MICROSENS

fiber optic solutions

Enterprise

GbE
STM-16
Fibre Channel
E1 IP
ATM



Access

Modular Access Platform

Constantly increasing demand for bandwidth, and the geographical spread of data networks, have increased the deployment of fiber optics at all application levels.

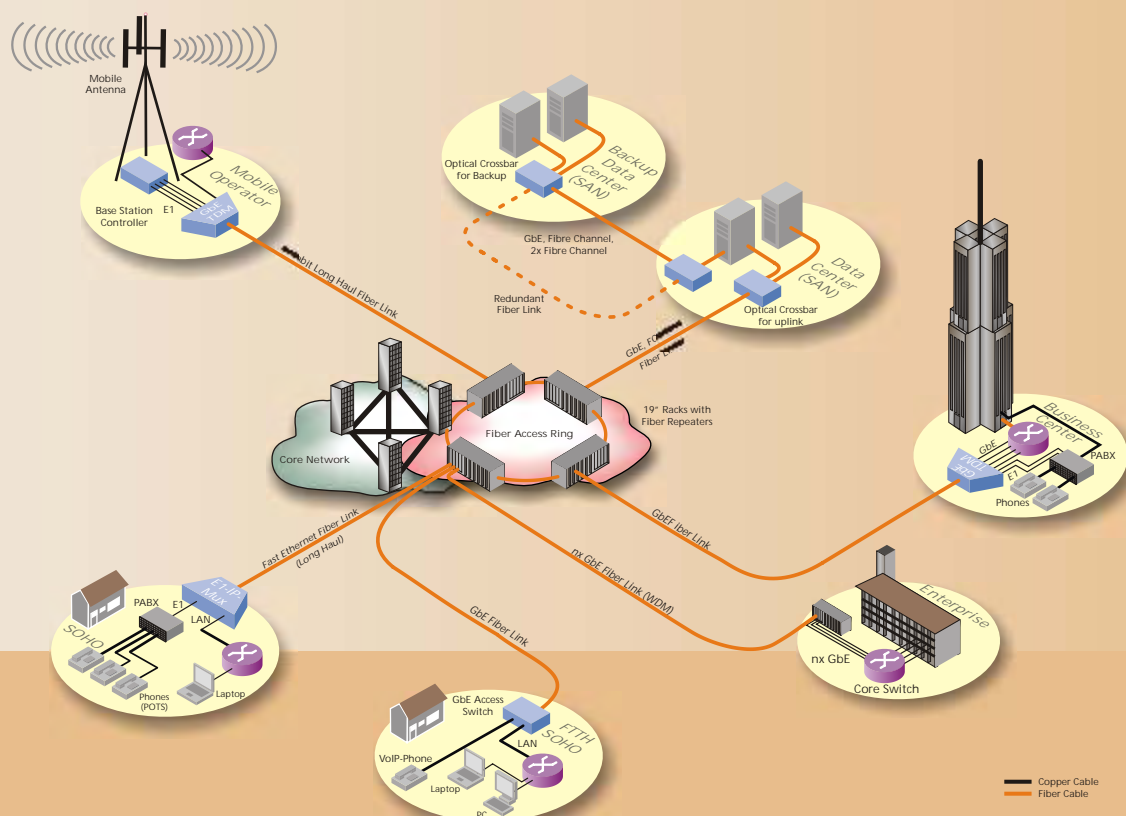
Today's network infrastructures require open systems based on fiber optics that can be installed easily and adapted flexibly to changing requirements. The MICROSENS Access Platform offers a wide range of access modules for LAN and WAN applications as well as for the interfacing of telecommunications and industrial networks.

Application

The rapid development of information technology drives the convergence of local and wide area networks (LAN / WAN). This convergence demands new connectivity for local enterprise networks, the Enterprise Access.

Protocol transparent converters enable the direct interfacing of communications equipment such as switches, routers and bridges to long-haul single mode networks.

Due to this transparency, these components are not limited to particular applications, but can be used with a variety of applications such as Gigabit Ethernet, SONET/SDH, ESCON® or Fibre Channel.



Product Range

The modular Access Platform from MICROSENS is based on universal communication modules for installation in various chassis types. The product range of modules includes:

- Optical Crossbar for OEO signal routing
- 3R Signal Regenerators for long-haul transmission
- Single/double/triple Gigabit Ethernet Media Converters
- Gigabit TDM and E1 Ethernet Gateways
- Intelligent Bridges and Switches
- Gigabit Bridge Modules with bandwidth limitation
- Redundant connectivity (Line Protection)
- Multimode / Single Mode Converters
- Wavelength Converters (xWDM)
- Extenders for GBE over multimode fiber

A full range of products is available in order to select the optimum solution for current and future requirements regarding bandwidth, fiber optic parameters, and connectivity. All access modules are hot-swappable and can be combined in any configuration in any chassis.

2x Fibre Channel

Gigabit Ethernet

Fibre Channel

Sonet/SDH

STM-4/16

ESCON

STM-1

Fast Ethernet

Ethernet

G.703

V.24/V.11

Management

- Professional access systems permit the integration of an SNMP agent, thus allowing effective configuration and monitoring of components via the connected network.
- An integrated web server provides device status information via standard Internet browser. The integrated Telnet console permits text based access.
- Firmware updates can be uploaded during operation via FTP.
- The system management monitors operating parameters such as link status, optical budget, power supply capacity, fan status, module temperature etc.
- Compatibility with all major management platforms.



Flexible Chassis Concept

The modular concept allows the use of identical modules in different chassis types.

- 100..230 VAC and 48 VDC power supply
- Redundant power supply
- Hot-swap of access modules
- Alarm relay contact

Desktop Chassis

- Single and double module chassis (1 or 2 modules per chassis)

Enterprise Chassis 1U

- 19" , 1U, 3 module slots

Enterprise Chassis 3U

- 19" , 3U, 14 module slots

Carrier Class Chassis 4U

- 19" , 4U, 28 module slots (front + back)

Carrier Class Chassis 7U

- 19" , 7U, 54 module slots (front + back)



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Optical Crossbar

- Crossbar Module with 4 flexible SFP ports connected by a programmable high-speed electrical crossbar for multiple applications:
 - Dual converter for high-density interface conversion and CWDM/DWDM application
 - Redundant converter for Channel Protection applications
 - Point-to-multipoint connection for Broadcast applications
- Full signal retiming (3R) up to 2.7 Gbps on all ports, optional bypass mode (full transparency)



Gigabit Ethernet Bridge

- 10/100/1000 Mbps Auto Negotiation
- Flexible optical interface for pluggable transceiver (SFP/GBIC)
- Integrated management agent (in-band)
- Monitoring of optical interfaces via digital diagnostics
- Migration to CWDM/DWDM solutions



Triple Gigabit Converter

- 3x Gigabit Ethernet Converter, 3x 1000Base-T to 1000Base-X (SFP)
- High port density for Central Office applications
- Integrated link-through functionality for link transparency
- Flexible optical interfaces for pluggable transceivers (SFPs)




Media & Mode Converters

- Transparent Optical Media Converters
Single Mode / Multimode, up to 2.7 Gbps
- Single/dual Ethernet Media Converters
 - 100Base-TX/100Base-FX
 - 10Base-FL/10Base-T
- Fast Ethernet Switch Modules
4x 10/100Base-TX, 1x 100Base-FX
- Multifunctional FE Bridges
Twin 10/100Base-TX to 100Base-FX








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