**The XMP1 system family**

XMP1 is a modular multi-service access system, designed for usage in dedicated networks. It has a variety of interfaces for providing voice services (e.g. E&M, ISDN telephony), data services (e.g. E1, V/X), Ethernet, video and teleprotection (implementation of C37.94 protocol).

The services can be transmitted via an SDH-/PDH network and/or SHDSL paths. The XMP1 is exceptional for its high level of availability, support of different protection switches and low processing times. As a result, it is ideal for usage in networks where mission-critical data has to be transmitted. Due to different subracks with 1, 8, 16 and 32 slots, it is a flexible and cost-effective response to the most varied of demands.

SOX (Service on XMP1) is the network management system for the XMP1. SOX allows user-friendly configuration and monitoring of the whole XMP1 network. SOX provides additional protection functions that further enhance the availability of the network.

The XMP1 is typically used in public transport and railway companies in transmitting data for: public address systems, emergency call installations, signaling and control systems, access controls, company telephony, train tracking, binary contacts, axle counters, alarm systems and monitoring electrical substation.

With XMP1-LCC a high performance cross connect multiplexer is available as further member of the XMP1 family.

XMP1 highlights

|  |  |  |  |
| --- | --- | --- | --- |
| * SDH cross-connect for 496 x 64 kbps (non- blocking) * Optimal support of network interfaces ranges from 2 Mbps to STM-1/4/16 * Non-blocking PDH cross-connect on 8k/64k level with 16 x E1 inputs * Highly sophisticated SHDSL line cards * Various interfaces for voice, ISDN, Data, LAN and alarming * Supports C37.94 protocol for telecontrol networks | * Modular system for all network topologies * Powerful management system for control, testing and diagnostic functions * Space savings with an integrated high density compact design * Optimal for mission-critical applications, thanks to highest availability and reliability * Versatile protection and redundancy mechanism * Integrated SDH multiplexer with interfaces for STM-1 and STM-4 | | |
| The system family | | |  |
| http://www.keymile.com/documents/10181/22811/XMP1_70px.jpg/490843df-abd6-4704-901b-95e283c3258e?t=1392894410336 | | | The XMP1 is a compact subrack with 8, 16 or cascaded 32 slots. It provides various interfaces for POTS, ISDN, data, Ethernet, SHDSL, teleprotection and alarms. |
| http://www.keymile.com/documents/10181/22811/XMP1-LCC_70px.jpg/a5555714-c9c0-4689-87bc-44adf70ff914?t=1392894408276 | | | The [XMP1-LCC](http://www.keymile.com/products/mission_critical_system_mcs/xmp1-lcc) is a unique multiplexer with 3 HU. The XMP1-LCC combines extensive cross-connect capacities from SDH down to 64 kbps level, STM-1/4/16 and excellent availability with flexible upgrade possibilities. |
| http://www.keymile.com/documents/10181/22811/XMP1-SL_70px.jpg/e119c863-a110-4284-8e6f-25855eb50fbd?t=1392894409425 | | | The XMP1-SL is an 1 HE multiplexer with 8 E1 interfaces and one slots for a XMP1 interface unit. |

[](http://www.keymile.com/documents/10181/22883/App_XMP1-LLC_E.pdf/f0dc229b-2df5-4b30-9972-0d6cfd54c6f8)

XMP1 is ideal for the following applications and areas

* PDH and SDH cross-connect
* Point-to-point and point-to-multipoint networks
* Consolidation & Grooming
* Access node for transmission networks
* Teleprotection acc. to IEEE C37.94 for energy suppliers