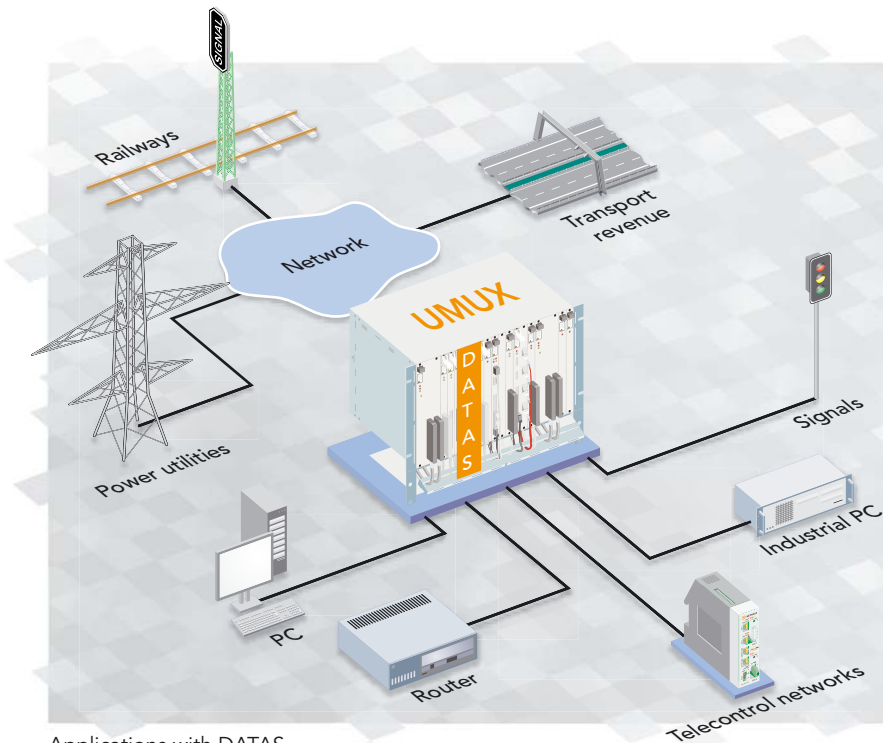


UMUX Data Serial Interface Unit – DATAS

DATAS brings powerful functions and increased flexibility for data applications on the UMUX platform



Applications with DATAS

- Different interface types on one single unit
- Access to wideband TDM bus (PBUS)
- V.35, X.24/V.11, V.24/V.28, RS-485 and Ethernet interfaces
- 1 + 1 Path Protection
- 1 + 1 Equipment Protection
- Substrate multiplexing
- Point-to-multipoint transmission
- Performance monitoring

DATAS offers innovative features and superior performance for local data interfaces. DATAS' ability to support several different interface types on one single unit, increases flexibility, and optimises chassis space and investment in the UMUX platform.

■ Enhanced data service capabilities in UMUX

DATAS combines all of KEYMILE's extensive expertise in the field of data services in order to bring to the market a powerful and comprehensive solution for

data provisioning. This unit addresses the specific needs of data service suppliers, while providing unparalleled flexibility to deliver those facilities from UMUX.

DATAS has access to the UMUX wideband TDM bus system (PBUS). This feature allows each one of DATAS ports to have 2 Mbps access to the backplane. It also provides 128 x E1 cross connection capability among units. Low and high speed data interfaces are available on the DATAS unit. Low speed interfaces intended for connection to controllers, valves or detectors as

well as high-speed interfaces for large bandwidth applications, such as connections to routers or high-speed modems, are available. In conjunction with the 2 Mbps interface unit LOMIF, DATAS can also be used as a data interface to E1 channel converter, allowing up to 48 converters in one single UMUX.

A comprehensive set of protection mechanisms is available in DATAS, covering end to end traffic protection and section protection for point-to-point applications, plus 1+1 equipment protection for redundancy of service units. The UMUX platform

also offers a Shared Protection Ring mechanism for protection of point-to-multipoint connections on a ring topology.

■ Wide range of data interfaces

DATAS provides a wide range of data interfaces in order to cover several types of applications. Supported interface types in DATAS.

- V.35
- X.24/V.11
- V.24/V.28
- RS-485

An additional Ethernet interface, configurable as a bridge, is available on every unit. This port may be configured as an option and will take the functionality of one of the other four ports.

■ Interface flexibility at its best

DATAS is able to provide different types of data interfaces either on separate units or simultaneously existing on the same unit. This inherent flexibility within the unit allows for a wide range of data terminal equipments, with different interface types and data rate requirements, to be connected to one single unit.

■ Supplementary features

In addition to the different types of interfaces supported, the DATAS offers extra features to enhance data services provisioning. Optional features:

- End-to-end protection for n x 64 kbps channels (1 + 1 Path Protection)

- Sub-rate multiplexing
- Point-to-multipoint transmission
- Performance monitoring

These attributes add even more advantages for data services deployed from a UMUX network.

■ Built-in transmission solution

DATAS, in conjunction with UMUX, provides a complete solution for data services. With its wide range of available interfaces, the UMUX can easily be deployed in any type of existing network infrastructure. Data services provided via DATAS can be multiplexed and transmitted to the network using the TDM, SDH and ATM transport technologies of the UMUX platform.

Technical Data

Ports	
4 interfaces	4 serial or 3 serial + 1 x 10/100BaseT
Interface types	
Multi-protocol: All interface types on the same unit	V.35, X.24/V.11, V.24/V.28, RS-485, 10/100BaseT
Single-protocol: One interface type per unit	V.35, X.24/V.11, V.24/V.28, 10/100BaseT
Data rates supported	
Sub-rates	0.6 ... 38.4 kbps asynchronous and 0.6 ... 56 kbps synchronous
n x 64 kbps	64 ... 1,984 kbps
Transparent	2,048 kbps
Ethernet features	
Bridging	MAC-to-PPP or MAC-to-HDLC bridging (MAC encapsulation) with source learning transport of VLAN tagged frames (up to 1,836 bytes)
Optional features	
Protection	1 + 1 (end to end) path protection
Performance monitoring	Transmission on performance monitoring time slot or CAS
Sub-rate multiplexing	Up to 4 sub-rate channels < 9.6 kbps in one time-slot Up to 4 sub-rate channels < 19.2 kbps in two time-slots
Point-to-multipoint	Signalled and transparent bus Single and double master configuration
Backplane access	
Wideband TDM bus (PBUS)	4 x 2,048 kbps per unit
Mechanical parameters	
Powering	10W
Connectors	METRAL for serial interfaces, Ethernet CAT5



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