

ATM STM-1 optical interface unit ATIOP

Maximising the profitability of your broadband access network with the UMUX



- Cost effective ATM switching and transport
- Fits in fixed and mobile network applications
- Multi-service consolidation
 - broadband data
 - private circuit
 - voice

UMUX ATIOP

KEYMILE ATM STM-1 optical interface module on the UMUX enables operators to offer the a wide range of legacy and broadband services over ATM broadband access networks.

■ Maximise Profitability

The UMUX platform's state of the art multi-service capability and extensive interworking functionality enable operators to offer high revenue generating services such as voice and private circuits in addition to today's offered

broadband Internet access. This is achieved whilst preserving lowest capital and operational expenses.

■ All-In-One

The ATM STM-1 optical interface unit ATIOP is a plug-in module on the UMUX multi-service access platform.

ATIOP consolidates private circuit and voice services over a single optical ATM trunk. The unit provides 155 Mbps ATM connections based on STM-1 standard framing.

In combination with a wide range of access and interworking peripheral units available on the UMUX, the ATIOP enables numerous UMUX broadband applications.

■ Applications

As a Next-Generation Digital Loop Carrier (NG-DLC), a single UMUX network element delivers concurrently native voice as well as narrowband and broadband Internet access.

Coupled with the Circuit Emulation Service (CES) interworking function on unit ACONV, the UMUX network element can be configured as a circuit emulation service node delivering private circuits up to a total capacity equivalent to 64 x 2 Mbps.

ATIOP can be configured as network-side or line-side interface. This allows UMUX network elements to act as ATM traffic aggregators and consolidators that are ideally suited for broadband DSL as well as UMTS network applications.

■ Carrier-Grade Solution

By supporting various service categories, the ATIOP guarantees carrier-grade multi-service transport and delivery over ATM STM-1. Additionally, by supporting 1+1 equipment protection as well as

multiplex section protection (with two ATIOP modules), highest equipment and service availability is provided.

■ Seamless Migration

The UMUX combines

- NG-DLC,
- voice gateway,
- packet aggregation and
- digital cross connect

functionality onto one single subrack. Operators can be confident that with such flexibility, the UMUX is a profitable investment in different types of networks. Moreover, the same platform provides smooth migration to Next Generation Networks with IP centric technology.

■ Standard Compliant

Through the use of standard interfaces and functions, compatibility with other elements of the operator's network is assured.

■ One Management System

The management of the ATIOP and other functions is integrated in the UCST/UNEM management system. This enables operators to operate in a familiar environment and accelerates the provisioning process.

To find out more about this product, please contact KEYMILE.

Technical data

General	
ITU-T recommendations	G.703, G.783, G.813, G.823, G.825, G.957, G.958
Bit rate	155.52 Mbps ±4.6 ppm
Number of STM-1 ports and connector type	1 x E-2000 (optical)
Wavelength	1300 nm S-1.1 and L-1.1 1550 nm L-1.2
Typical range	15 km for S-1.1, 45 km for L-1.1, 80 km for L-1.2
Framing	STM-1/STS-3c
STM-1/VC-4 bandwidth	149,760 kbps (353,207 cells/s)
ATM	
Type of connection	PVC (VPCs and VCCs)
Service categories supported	CBR, rt-VBR, nrt-VBR, UBR
Conformance definitions	CBR.1, VBR.1, UBR.1
Ingress traffic control functions	CAC and UPC
Egress traffic control functions	VP shaping and CAC
Protection	Supports MSP and EQP over two units
Performance monitoring	According to G.826
Other	
Modul width, weight	1 Slot (4 HP = 20.32 mm), 530 g



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