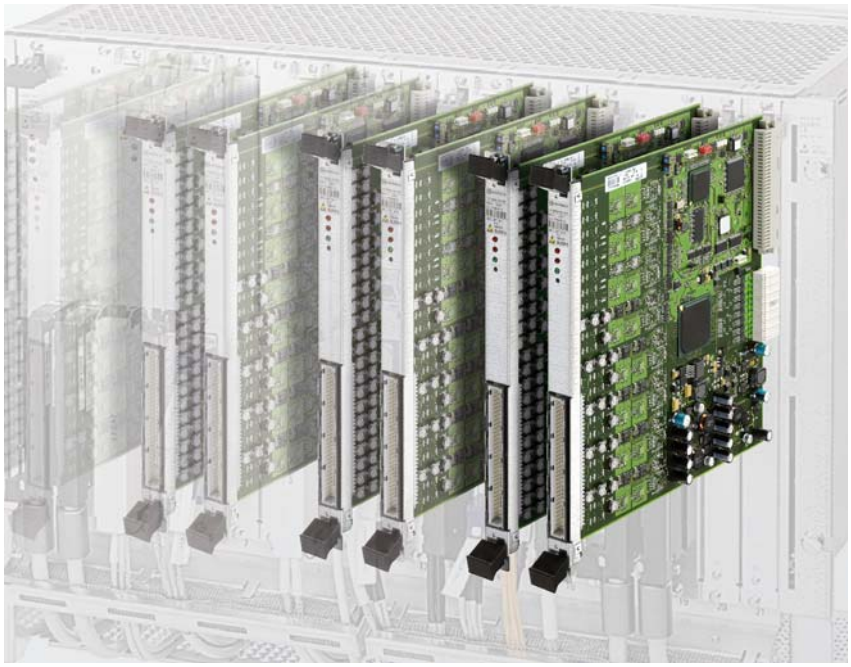
UMUX SUBH1/SUBH3

POTS line card family champions high density POTS solutions for TDM and Next Generation access networks



UMUX SUBH3 (left) and SUBH1

- Scalable: High density to low density
- Enhanced line test functions
- Suited for NGN and PSTN
- Centralised management

With 480 POTS lines in a 19" subrack, operators can deliver highly profitable voice service in the last mile.

High-density voice delivery

The introduction of the new POTS line cards puts UMUX in the pole position of voice solutions in the access network. The UMUX voice solution cost effectively scales up to thousands of lines within a small footprint. UMUX is a widely deployed voice solution today with the best track record in interoperability with the widest range of CLASS 5 switches and softswitches. The SUBH line cards guarantee the same level of interoperability, with more attractive cost models.

SUBH line cards

The SUBH provides feature rich POTS interfaces that connect traditional telephone subscribers to the telecommunication networks. These universal line cards support the POTS requirements of different countries worldwide. Two variants are available: SUBH1 and SUBH3. The SUBH1 is a one-slot unit that offers 10 lines. The higher density variant, the SUBH3 is a one-slot unit that offers 30 lines. Both versions can be deployed in a UMUX1500 or UMUX1200.

Enhanced line test functions

The integrated line test functions on the SUBH linecards enable operators to qualify a subscriber line remotely from the Network Operation Centre. The line tests can be activated either

automatically (cyclic test) or manually (on-demand test), giving operators the freedom to test as required.

Ideal for PSTN and NGN

The SUBH line cards are compatible for voice delivery in the access networks of both Public Switched Telephone Networks (PSTN) and Next Generation Networks (NGN). The same UMUX supports both TDM telephony with V5.x or CAS interface and NGN telephony with H.248/MEGACO interface.

As a result the migration from a V5 access gateway to VoIP Subscriber Media Gateway cannot be easier. By keeping the same POTS line cards for both applications, investment in the UMUX is protected.

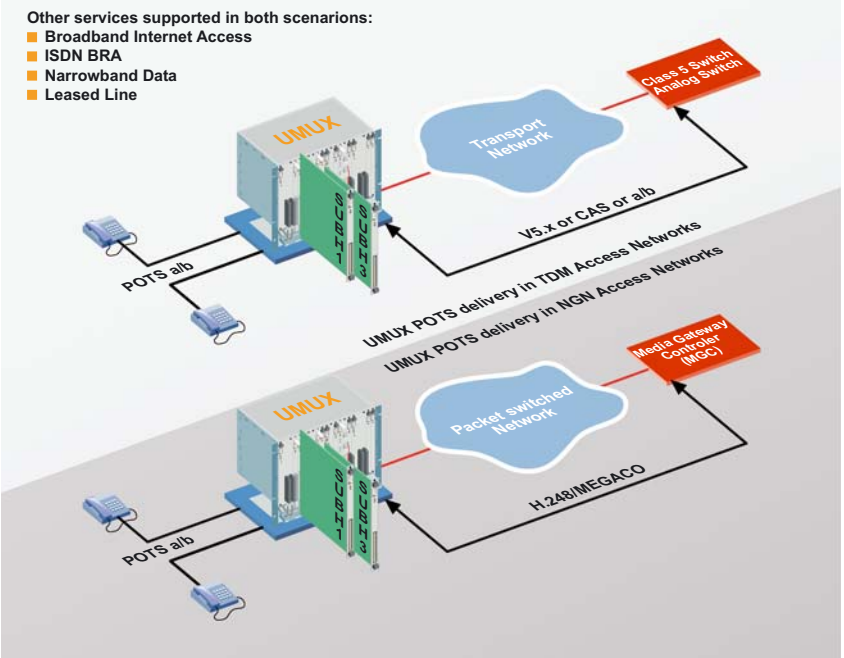
All-in-One

In addition to high density voice, the UMUX is a multi-service access platform. Broadband and narrowband services are supported by a variety of interface cards. A single UMUX performs the functions of Next Generation-DLC, Voice Gateways and Digital Cross Connect.

Operators can be confident that with such flexibility, the UMUX is a profitable investment in different types of networks.

One Management

The management of the SUBHx and other functions is integrated in the UCST/UNEM management system. By having ONE element manager for all types of services, operators will accelerate the provisioning process. This powerful and easy-to-use element manager ensures more efficient OAM&P and lower operational costs.



Technical data

General	
SUBH1	10-port POTS
SUBH3	30-port POTS
Mode of operation	
Digital switch	V5, MCAS, carrier adaptive mode
Analog switch	Phone exchange
Phone-phone	Phone-phone
Analog line parameters	
Line impedance	Configurable
Voice encoding	A-law and µ-law
Dialling	DTMF and Pulse
Loop current	20 mA to 46 mA
Pulse metering	12/16 kHz
Polarity reversal	Supported
Integrated line tests	
Supported line tests	Isolations tests, foreign AC/DC voltage tests, noise tests, capacity tests
Operating temperature range/humidity	
Module width	1 slot (4 TU)
Environments temperature range/humidity	According to UMUX environmental spec.

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