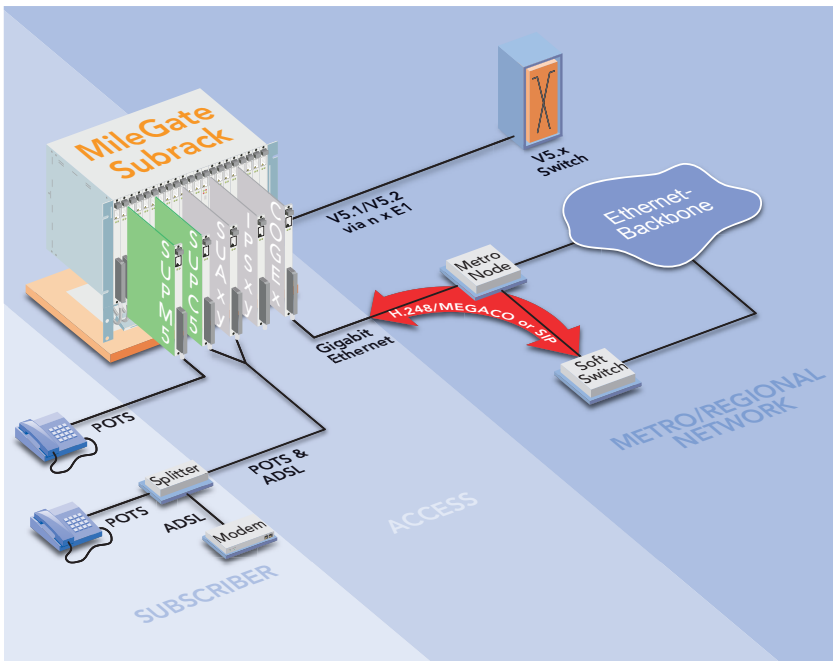


MileGate SUPM5 and SUPC5

POTS line card supports high density POTS configurations in legacy and Next Generation Access Networks



- High density line card
- Up to 912 POTS interfaces per subrack with only 15 slots used in conjunction with VoIP gateways
- Compatible in SIP, H.248 and V5.1/V5.2 networks
- On-board splitter for an easy interconnection with ADSL services
- Enhanced line test functions
- All functions out of one network management system

MileGate POTS delivery in legacy and NGN Access Networks

With up to 912 POTS lines out of one 19" subrack, operators can deliver highly profitable voice services in the last mile - either as stand-alone service or in combination with high-speed Internet access via ADSL2plus or VDSL2.

■ General

The SUPx5 provides 64 feature-rich POTS interfaces that connect traditional telephone subscribers to the telecommunication networks. This universal line cards supports the POTS requirements

of different countries world wide. The SUPx5 cards are compatible for voice delivery in the access networks of Next Generation Networks (NGN) and Public Switched Telephone Network (PSTN).

■ POTS in NGN and PSTN Networks

With the available VoIP Media Gateways in MileGate, POTS services can be directly integrated in VoIP network architectures. In order to achieve maximum interoperability, MileGate

also provides an SIP-based and an H.248-based VoIP Media Gateway, where the protocol can be changed with a software download. Recognising the operation of PSTN network continues, the V5.1/V5.2 Gateway in MileGate connects the POTS services to existing Class 5 switches in the PSTN network.

This allows network operators to choose the optimum solution for their network or to migrate to other standards if required in the future.

■ COMBO Solution SUPC5 makes things easier

The COMBO solution on the MileGate is another deployment method that suits operators who generally deliver both, POTS and ADSL services on each subscriber line. It offers a scalable and easy delivery of POTS and ADSL/2/2plus services to end users with simple and flexible installation. Equipped with on-board splitters and furnished with Y-cables, the solution simplifies the wiring at the IP-MSAN locations, saves port usage on the DDF (Digital Distribution Frame) and eliminates the external CO splitter

installation. Moreover, it provides full flexibility of services deployment in both COMBO and POTS.

■ Enhanced Line Test Functions

The integrated line test function on the SUPx5 is an extremely powerful tool used by operators to pre-qualify a subscriber line remotely as well as to perform fault isolation. The line tests can be launched remotely from the Network Operation Centre. This simplifies the operation processes and reduces operational cost in the whole sales lifecycle of a POTS service. They can be activated either automatically

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

■ One Management

The management of the SUPx5 is integrated in the MCST/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 (Operation, Administration, Maintenance and Provisioning) and lower operational costs.

Technical Data

General	
Unit name	SUPM5, SUPC5 (with on-board splitters)
Number of POTS ports	64
Mode of Operation	
Softswitches	H.248/MEGACO (via IPSMx) or SIP (via IPSSx)
Class 5 switches	V5.2 (via PCOM1 and PCOM2), V5.1 (via PCOM2)
Other modes	MELCAS (MCAS), phone-exchange, phone-phone automatic ring down
Services	
Analog voice	Supported
Fax/Modem	Supported
Analog Line Parameters	
Line impedance	Configurable
Voice encoding	A-law
Ringing	Supported; on-board ringer
Dialling	DTMF (preferred) and Pulse
Offhook loop current	15 to 45 mA
Pulse metering	12/16 kHz (preferred with SUPM5)
Polarity reversal	Supported
Call progress tones	Supported in conjunction with IPSMx/IPSSx
Maximum cable length (Ø 0.6 mm)	SUPM5: 11.3 km, SUPC5: 3-4 km
Integrated Line Tests	
Isolation tests	Supported
Foreign AC/ DC voltage tests	Supported
Noise tests	Supported
Capacity tests	Supported
Test execution	Cyclic or on-demand
Management	
MCST	For local management
UNEM	For central management
Power Supply	
Input voltage nominal (min/max)	-48/-60VDC (-40.5VDC ... -72VDC)
Operation Environment	
Temperature range and humidity	According to MileGate environmental specifications



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