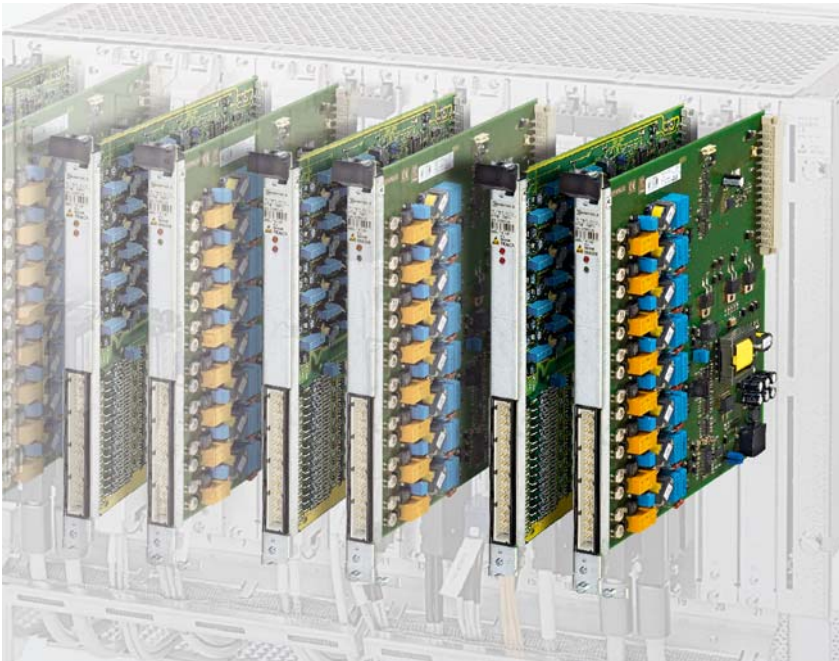


UMUX MAGI8 and NEMSG

Bringing the legacy telephone signalling into your telecom infrastructure



- Magneto line signalling conversion unit
- Onboard Ringing generator
- Support of legacy and new services out of a single modern access node
- 8 x 2-wire subscriber lines

UMUX MAGI8 and NEMSG

In some telephone networks, legacy telephone apparatus such as the local battery telephone is the proven robust system still in use today. These telephones use the magneto line signalling technology. This has to be converted into services of modern telecom networks.

The line cards MAGI8 and NEMSG are the solution to transport magneto line signals via the Multi-Service Access System UMUX.

The line cards are one-slot plug-in units for the UMUX 1500/1200 subracks. The configuration, inventory management and fault management is handled as any standard UMUX plug-in unit via UCST/UNEM.

■ MAGI8

The MAGI8 (MAGneto Interface line card) provides eight magneto interfaces and converts the magneto line signals into E&M signals and vice versa.

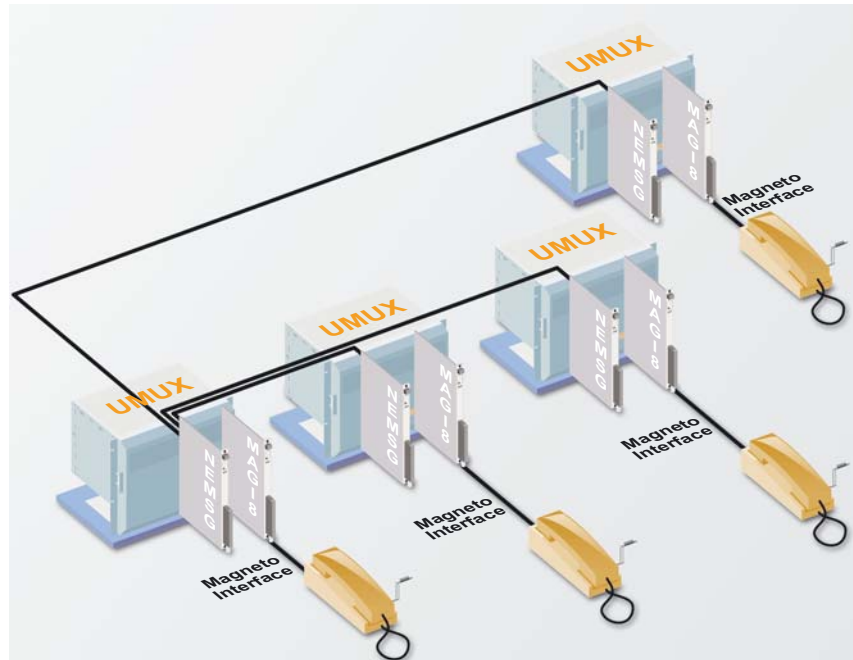
■ NEMSG

The NEMSG converts the E&M signals to CAS signals and packetises them into PCM signals. It digitises analogue voice and packetises them into PCM data streams. This allows the access line (2-wire lines with magneto

signalling and voice) to be transported on any type of metro network (PDH, SDH, ATM or IP).

The combination of MAGI8 and NEMSG provide the complete end to end processing of the signals:

- Magneto interface line card MAGI8 (conversion of magneto line signalling to E&M signalling, onboard ringing generator)
- NEMSG line card (conversion of E&M to CAS signalling, digitalisation of the analogue voice)



Technical data

MAGI8	
Function	Conversion of the magneto voice line signalling to E&M signalling and vice versa.
Basic functions	Galvanic isolation of voice circuits, ringing signal detection, ringing generator
Frequency range	300 ... 3400 Hz
Impedance	600 ohms, symmetrical
Ringing generator frequency	20 Hz, 25 Hz or 50 Hz
Ringing detector frequency range	20 to 90 Hz
Number of ports	8
Front connector type	DIN 41612
Module width	1 (4 TE=20.32 mm)
NEMSG	
Function	Interface for conversion of E&M signals to CAS signals and for digitalisation of analog voice
ITU-T voice coding	A-law according to G.711
Characteristics of voice channels	According to G.712-G.715
Channel bandwidth	300 ... 3400 Hz
Number of ports	8
Front connector type	DIN 41612
Module width	1 (4 TE=20.32 mm)



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