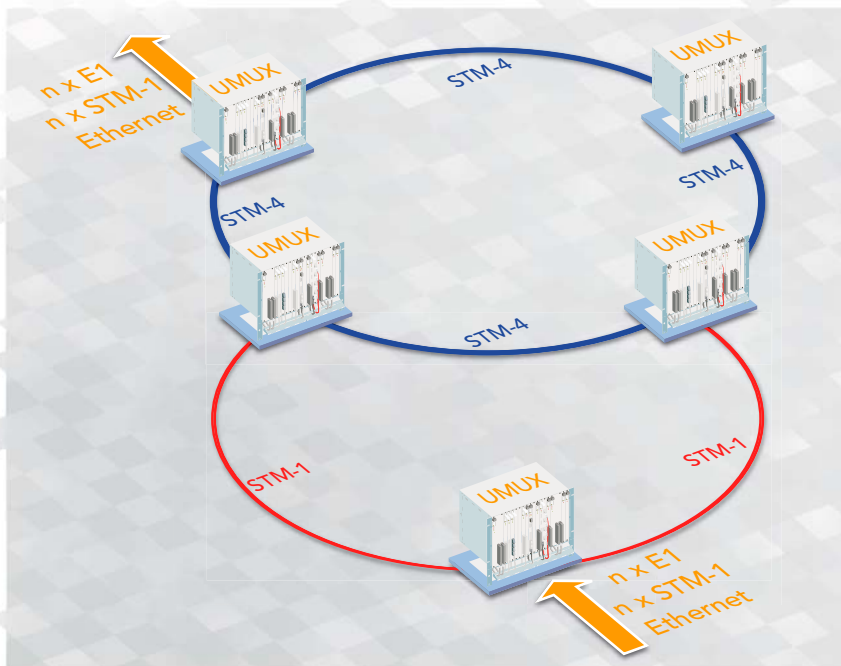


UMUX SDH STM-4 unit SYN4E

Cost effective UMUX solution for EoS (Ethernet over SDH) and SDH STM-4 network applications



- 2 x SDH STM-1/STM-4 dual speed aggregate interfaces
- 2 x SDH STM-1 tributary interfaces
- 4 x 10/100/1000BaseT
- Cross connect capacity
 - 18 x 18 VC-4
 - 36 x 36 VC-3
 - 693 x 693 VC-12
- Complete EoS capability – Ethernet and SDH interfaces on a single unit

The new UMUX SDH STM-4 unit SYN4E offers scaleable and cost-effective delivery of reliable, flexible, secure, and managed services. KEYMILE’s SDH STM-4 solutions deliver new revenue opportunities through next generation technology whilst reducing infrastructure and operations costs.

■ Unit description

The new UMUX SDH unit SYN4E is a one slot plug-in unit for the UMUX family (UMUX 1200, 1500). Based on highly integrated ASSP (Application Specific Standard Product), the unit supports a

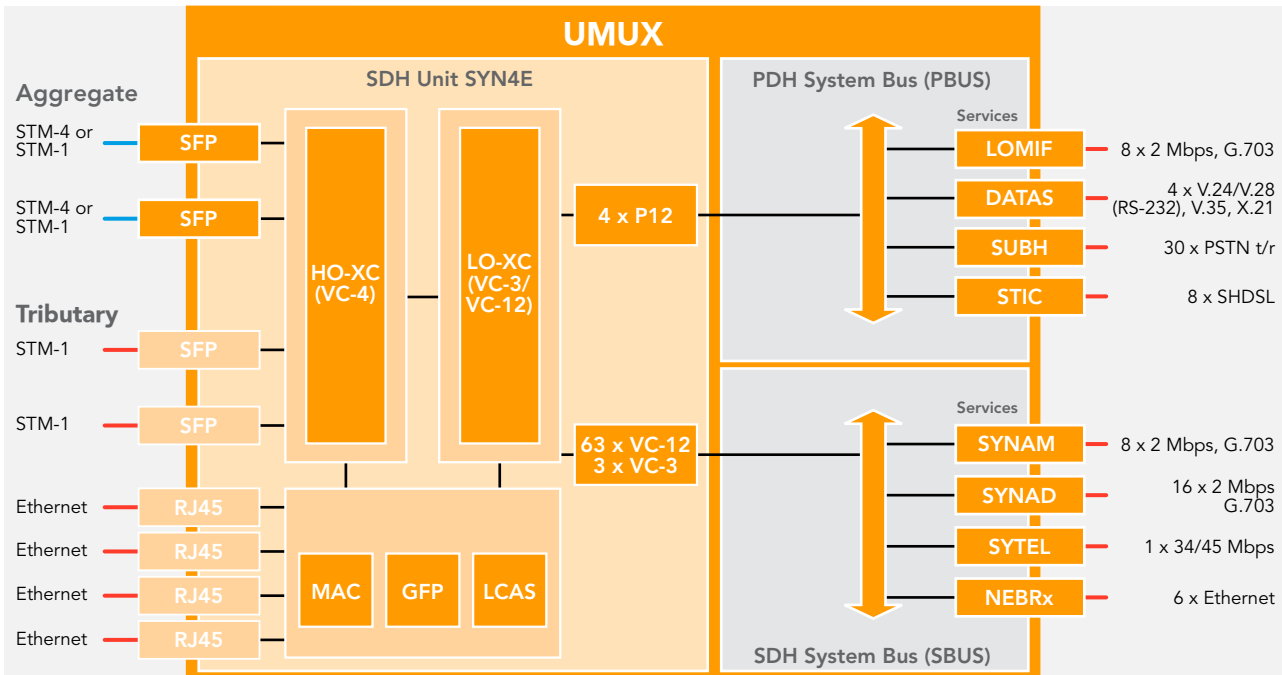
number of tributary interfaces seamlessly: SDH interfaces, Ethernet interfaces and TDM interfaces. The block diagram on the rear side shows the architecture of the new SDH unit SYN4E, the front access interfaces and the access to the UMUX backplane (PBUS and SBUS).

■ Carrier-Grade Solution

The UMUX is hardened for outdoor applications and features redundant power supply and control cards to ensure a carrier grade product. The SDH STM-4 unit further enforces this aspect and guarantees the

highest equipment service availability through the support of recognised traffic and equipment protection standards:

- Multiplex Section Protection (MSP)
- Sub-Network Connection Protection (SNCP)
- 1+1 Equipment Protection (EQP)
- Synchronous Equipment Timing Source (SETS) protection
- Ethernet-over-SDH providing Link Capacity Adjustment Scheme (LCAS)



Block diagram UMUX SYN4E

Technical Data

General	
VC services	Cross connect 18 x 18 VC-4 Cross connect 36 x 36 VC-3 Cross connect 693 x 693 VC-12
Multiplex Section Protection (MSP)	1+1 unidirectional and bi-directional
Traffic protection	Sub-Network Connection Protection (SNCP)
Equipment protection	1+1 EQP, through 2 units
Performance monitoring	According to G.826
Synchronisation	SETS
Access to PBUS	4 x P12
Access to SBUS	3 x VC-3 or 63 x VC-12
SDH STM-1/STM-4 – Aggregate	
Bit rate	622 Mbps or 155 Mbps
Number of ports	2 (SDH STM-4 optical interface or SDH STM-1 optical/electrical)
Port types	SFP-based
SDH STM-1 – Tributary	
Bit rate	155 Mbps
Number of ports	2
Port types (optical and electrical)	SFP-based
Ethernet over SDH	
Framing procedure	GFP according to ITU-T G.7041
VC concatenation	Virtual concatenation according to ITU-T G.783
Link Capacity Adjustment (LCAS)	According to ITU-T G.7042
Bit rate	10 Mbps, 100 Mbps, 1 Gbps
Interfaces	4 x 10/100/1000BaseT
Front connector type	4 x RJ45
Others	
Module width (4 HP = 20.32 mm)	1
Environments temperature range/humidity	According to UMUX environmental spec.



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