

SURPASS hiX56xx Multi Service DSLAM Product Family

The NSN SURPASS hiX 5625 / 5630 /5635 is an innovative platform for Access Networks to provide broadband services on the last mile of the network. It is an Ethernet based platform. Carrier Grade redundancy for Power, Fan, Central Card and Uplink as well as End to End Management make DSLAMs failure proof. The access to the customer is provided over the existing copper without additional investment in the infrastructure.

High-speed interfaces are suitable for asymmetrical and symmetrical applications such as very fast Internet access, teleworking/ telelearning, video conferencing, secure virtual private networking, streaming HDTV multimedia content and videos. It provides all spectrum of broadband interfaces such as ADSL2+, VDSL2 and SHDSL/SHDSL.bis in addition to VoIP line cards.

SURPASS hiX 56xx IP DSLAMs are now fully multi-service enabled, offering a variety of broadband access solutions. The powerful Gigabit Ethernet architecture with best-in-class QoS and other carrier grade features is the ideal solution for implementing triple-play services or even more.

Key features

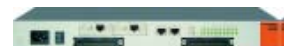
SURPASS hiX 5625/5630/5635 Shelf Based solutions

- Multi-Service (xDSL, POTS, ISDN, FE, GE) shelves with 6, 10 and 17 slot variants
- Non-blocking star GE architecture with 'five nines' availability
- Common software, service and control cards
- VDSL2 for services like HDTV
- Highest port densities e. g. 72 port ADSL2+ and VoIP cards
- Support of IEEE 802 standards
- H.248 or SIP-based voice in addition to VoIP over xDSL
- CO or outdoor deployment
- Star, ring, chain or tree-based topologies
- Rich QoS and traffic management for SLAs
- Multi-play of high-speed Internet, Voice, HDTV, and Ethernet to the premises (E-Line and E-LAN)
- Very short convergence times with Ethernet Ring Protection (ERP) in pure Ethernet environments
- Element management by ACI-E (Access Integrator Ethernet)
- Network level management by APM-E (Advanced Provisioning Manager Ethernet)
- Network and link level OAM according to MEF and EFM



SURPASS hiX 5620 Single Board solutions

- 19 inch box with 2U height (front access, integrated splitters, single AC or DC)
- Splitters for POTS/ISDN (ETSI, WM)
- Flexible FE/GE interface with electrical or optical interface (GBIC/SFP) for uplink and cascading
- Rich QoS support
- Enhanced L2 functionalities
- Suitable for central office, multidwelling and street cabinets
- Single board (19 inch and 2U high) for CO or outdoor deployment in low density areas
- 24/48 port variants for ADSL2+
- 24 port variant for VDSL2
- Management by ACI-E



Offer any variety of DSL for home entertainment

State-of-the-art VDSL2 technology – together with other traditional DSL variants in the same products – is the only choice for demanding applications such as HDTV. Owing to loop length constraints with VDSL2 technology, the SURPASS hiX 56xx series is environmentally hardened for outdoor deployment hence reaching every residential for home entertainment services.

Protect and enhance voice revenues

Many operators want to enrich their traditional Fast Internet offerings economically with services such as VoIP. The SURPASS hiX 56xx series offers VoIP using open protocols like H.248 or SIP in addition to VoIP over DSL, making them ideal access gateways.

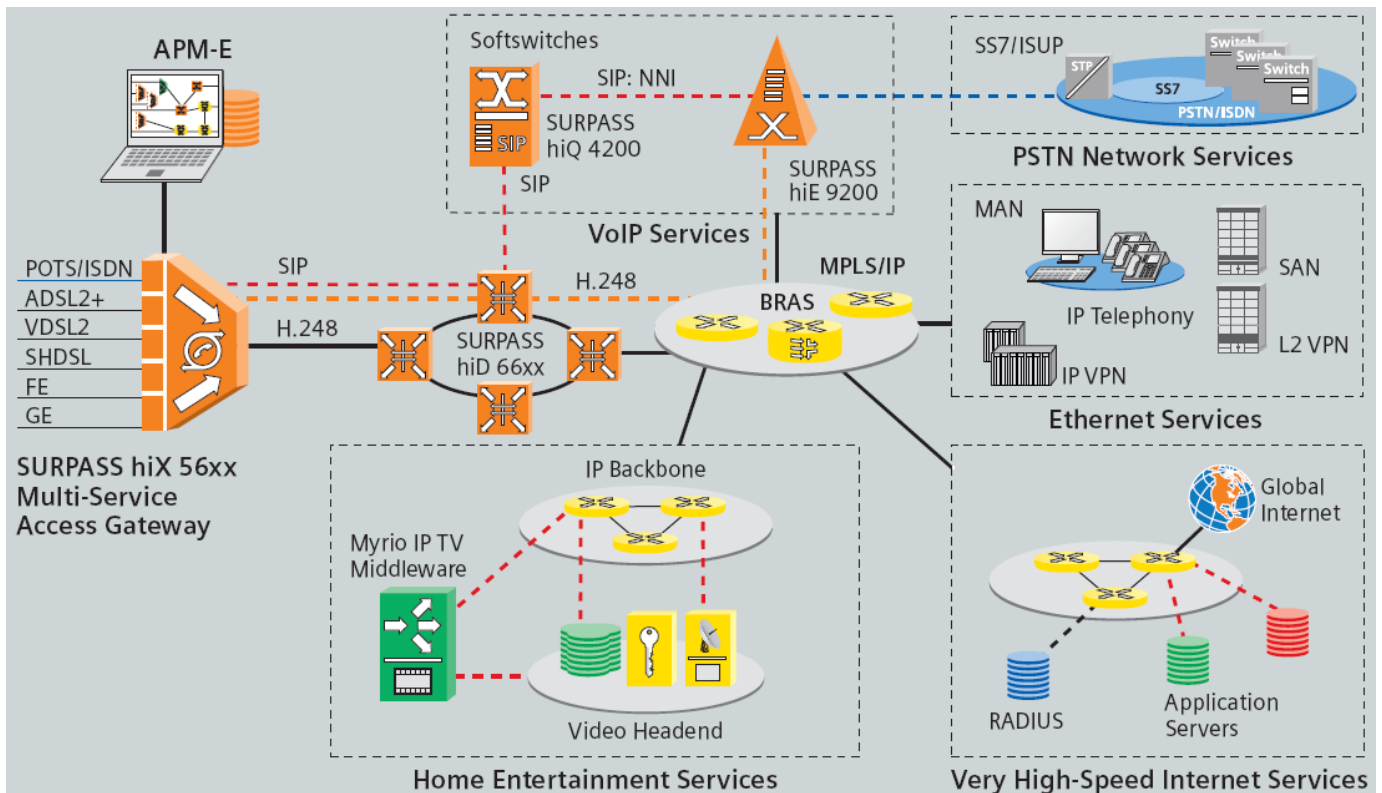
Secure business by addressing business customer needs

The SURPASS hiX 56xx series also offers Fast and Gigabit Ethernet interfaces for subtending remote sites as well as for connecting business customers who require Ethernet services to their office branches.

Single box multi-service access is the key

Having multiple boxes for different services was never the preferred choice of carriers when costs, OAM, inventory, logistics and training requirements are taken into account. Despite this, operators were forced to live with the situation. Now SURPASS hiX 56xx IP DSLAMs convert the carriers' dream into reality. Having all variants of DSL, VoIP and Ethernet interfaces in just one box – with appropriate QoS for different types of services – makes the SURPASS hiX 56xx series the prime choice of carriers. On top of this, the products offer hardware and software features that meet carrier's demand for scalability, security, availability and manageability.

Typical applications



The SURPASS hiX 56xx series of multiservice DSLAMs is an innovative series of products, unique for features such as VDSL2 for offering high-speed Internet, VoIP, HDTV, and video on demand. The advanced Ethernet feature set guarantees highest level of service availability and quality of services.

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