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IP Multi-service Access Node

hiX 5630

Product Features

- True IP multi service access node

- Advanced service delivery - IPTV, POTS, ISDN, Business & Residental Ethernet, xDSL

- Carrier grade gateway between provider network and service subscriber

- Up to 108 Gbit/s Switching Capacity

- 8 Service Slots

- Identical service cards for all shelf-based hiX 5600

- Copper and fibre transport and access

- Very high density for POTS and DSL access (up to 576 ports per shelf)

- Redundant architecture (Control card, uplink, Bus, Power)

- Digital and metallic onboard test for voice and xDSL

- Supported by ACI-E EMS

- Temperature hardened (can be deployed in outside plant)

- Cabinet solutions available

The hiX 5630 is a high performance, carrier class IP multi-service access and aggregation node designed to ETSI standards. It bridges the gap between the carrier IP network and the end subscriber for POTS, ISDN, VDSL, SHDSL, ADSL, Fast Ethernet, GbE, IPTV and other services.

The hiX 5630 is built upon a pure IP core and supports both legacy and emerging service interfaces over copper and fibre. This mix of services on one platform enables service providers to future proof their networks. New services can be deployed with the simple change of a line card, equipment obsolescence can be avoided and network investments protected.

The chassis supports eight service slots enabling the system to deliver up to 576 ports making it ideal for mid-size to large applications at the Central Office or deep in the network. Service slots include ADSL2+ (72 ports/slot), POTS (VoIP capable, 72 ports/slot), VDSL2 (48 ports/slot), ISDN (32 ports/slot), GbE (10 ports/slot), Fast Ethernet (48 ports/slot) and more. With the 10 GB capable redundant star backplane architecture, the hiX 5630 provides high capacity and high reliability in one system. This is complemented by redundant central control cards, redundant 1 GbE or 10GE uplinks on the central control card and redundant power supplies making the hiX 5630 truly carrier grade.

The system provides voice and data services as well as a simple migration path from legacy interfaces to IP. Voice services can be transitioned from POTS or ISDN to VoIP for example. Broadband data access can be provided using SHDSL, ADSL or VDSL (with or without splitters) as well as high density fibre using Fast Ethernet or Gigabit Ethernet. This unique mix of services from one single IP based platform enables service providers to quickly adapt to new business opportunities and remain highly competitive.
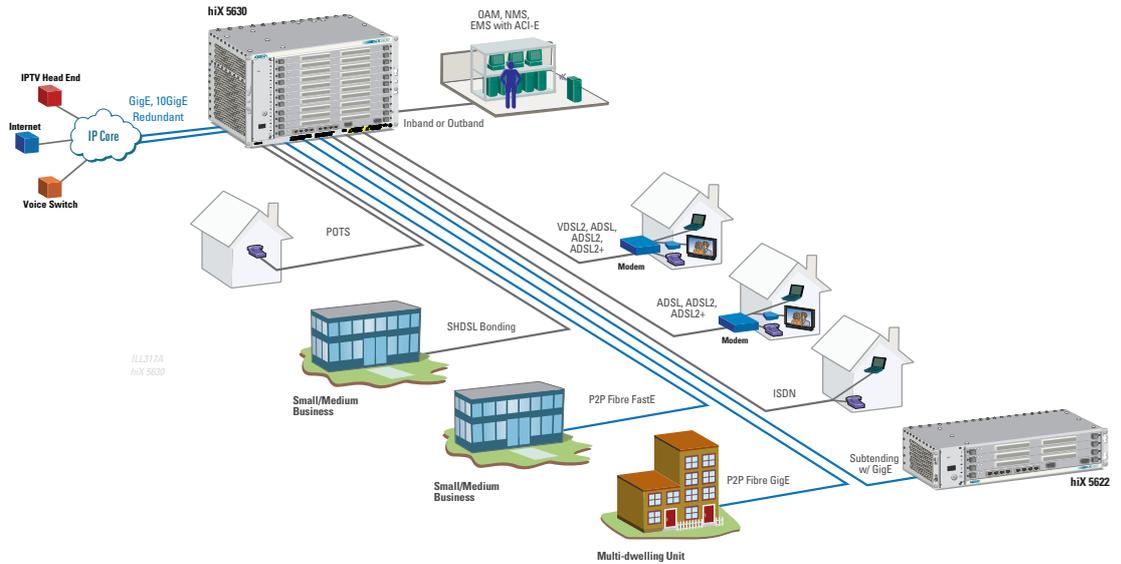
In order to ensure maximum flexibility, the common equipment and line cards are temperature hardened allowing the system to be deployed virtually anywhere, ranging from the Central Office to compact outdoor cabinets.

The hiX 5630 is managed by ADTRAN's Access Integrator Ethernet (ACI-E) Element Management System. The ACI-E EMS and hiX hiX 5630 nodes communicate using SNMP via in-band or out-band channels. The ACI-E provides a Graphical User Interface (GUI) and northbound interfaces such as SNMP, TMF CORBA, WSPI (Web service based XML provisioning I/F) for a smooth integration into service provider operational systems.

hiX

ADTRAN Smart Solutions for a Connected World.

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Product Specifications

Physical

- **Dimensions:** 324mm H, 533mm W, 331mm D including cables and ETSI adapters

Interfaces

- **Maximum number of slots:** 11
- 8 service-units, 2/1 central units
- 1x power module (1/2 slot size),
- 1 x power module (optional for redundancy)

Electrical

- **DC Power:** -40,5 to -72VDC
- **Power connector:** 3W3 male
- **Power consumption maximum:** 1000W

Regulatory Standards

- ETSI EN 300 019
- ETS 300 753
- DTAG TS 0364/96
- ETSI EN 300 386
- DTAG 1TR9
- ETS ES 201 468
- ETSI EN 60950
- ITU-T K20/21/27/31/35/45

Environmental

- **Operating temperature indoor:** -25°C to +55°C
- **Operating temperature outdoor shelter:** -25°C to +70°C
- **Storage:** -45°C to +45°C
- **Transport:** -40°C to +70°C
- **Relative Humidity:** up to 100%, non-condensing

Ordering Information

Equipment	Part #
hiX 5630 Chassis 21" ETSI (G600 2G)	S50028-B3160-A1
hiX 5630 fan unit large w/o dust filter (<70°C)	S50028-B3161-A1
hiX 5630 fan unit large w/dust filter (<45°C)	S50028-B3161-A2
hiX 5630 fan unit, reduced noise (<45°C)	S50028-B3161-A3
hiX 5630 filter pad for dust filter	C50165-A230-C539

Pulse Supply

909 Ridgebrook Road.,Sparks,Maryland 21152,USA
TEL : +1-410-583-1701 FAX : +1-410-583-1704

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E-mail: sales@pulsesupply.com
https://www.pulsesupply.com/adtran