

iAN8K B1000 Multimedia Network Edge

HIGH-DENSITY NEXT GENERATION INTEGRATED ACCESS PLATFORM (MULTI-SERVICE CONFIGURATION)

SCALABLE MULTI-SERVICE ACCESS PLATFORM BRIDGES THE GAP BETWEEN TRADITIONAL TDM AND IP-ENABLED VOICE AND BROADBAND DATA



- UP TO 2880 POTS/ADSL PORTS PER SYSTEM
- HIGH AVAILABILITY PLATFORM
- HOT STANDBY
- DUAL REDUNDANT POWER
- DUAL EXTERNAL CLOCK INPUT
- H.248/ MGCP/SIP
- DUAL HOMING FOR VoIP SERVICE
- IDLC & UDLC CONFIGURATION BASED ON V5.2 PROTOCOL
- LE-AN APPLICATION BASED ON V5.2 PROTOCOL
- IP-BASED XDSL APPLICATIONS
- RELIABLE GE/FE NETWORK INTERFACE FOR IP APPLICATIONS
- E1/T1 IMA AND STM-1 NETWORK INTERFACE FOR ATM NETWORK CONNECTIVITY
- INTEGRATED VOICE & DATA MODULE WITH SPLITTERS
- LOW BIT RATE CODEC FOR VoIP BASED ON ITU-T G.729AB, G.726, G.723.1 WITH VAD, CNG AND ECHO CANCELLATION
- 50K BHCA

PRODUCT DESCRIPTION

UTStarcom's modular iAN8K B1000 is a very versatile access product that can be configured to operate as a Multi-Service Access Platform that integrates the standalone functionalities of a traditional Digital Loop Carrier (DLC), a next-generation Voice over IP (VoIP) Media Gateway and an IP DSLAM in a single platform. By consolidating these three access devices, the platform enables service providers to efficiently add services and applications without incurring additional infrastructure expenses. In addition, the iAN8K B1000 enables service providers to gradually populate the platform based on subscriber demand, eliminating costly platform upgrades and providing maximum network deployment flexibility. The iAN8K B1000 presents service providers with an ideal strategy for migrating from TDM to IP-based voice, and triple-play data services. The iAN8K B1000 platform is available in various form factors, rear access as well as front access, to take care of varied deployment environments in different geographical regions. It can be deployed in CO as well as outdoor cabinets.

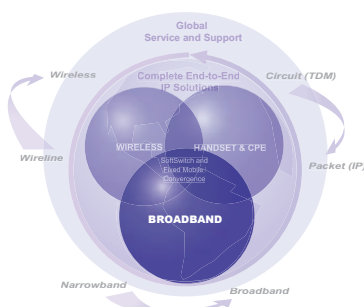
APPLICATIONS

The iAN8K B1000 platform can be configured to deploy a wide range of narrowband and broadband voice and data applications, to subscribers over a wire line network infrastructure. The iAN8K B1000 platform can be deployed in central office as well as remote/building node applications using its wide range of functions. It enables migration from legacy TDM networks to next generation networks enabling IP-based voice as well as broadband data applications using either TDM or IP based transport. The B1000 platform enables simultaneous deployment of V5.x TDM and VOIP services. When deployed in CO environments, it can connect to existing Remote Terminals (RT) via TDM while providing a VOIP uplink to the network.

FEATURES

The platform supports a wide range of customer interfaces via plug-in modules including:

- H.248/MGCP VOIP-based basic, supplementary and Centrex services and applications
- T.38 Fax Relay over IP
- VOIP-based ISDN application
- TDM over IP, providing TDM lease line over IP and V5 over IP service;
- Open PSTN interface: V5.1/V5.2 or 2-wire analog, allowing seamless connections to any LE switch for TDM POTS applications
- V5.1/V5.2 based ISDN BRI/PRI applications
- Sub-rate / Nx64K / E1 TDM data applications through E&M/BRI/E1 or TDM-based SHDSL
- ADSL/ ADSL2 / ADSL2+ / G.SHDSL support per ITU-T standards
- VDSL2
- E1 / STM-1 based network interface for TDM transport
- Fast / Gigabit Ethernet network interface for IP transport
- E1/T1 IMA and STM-1 based ATM network interface
- Gigabit Ethernet interface for GEAPON transport;
- built in voice band and broadband loop testing;
- Out-of-band management for robust security



FEATURES

SUBSCRIBER INTERFACE MODULE

- FXS, BRI, E1, IPADSL, IPSHDSL, TDM-SHDSL, IVD (Integrated POTS+ADSL)

TDM NETWORK INTERFACE MODULE

- STM-1, E1, EOE (Ethernet over E1)

IP/ATM NETWORK INTERFACE MODULE

- ICM (IP Concentration Module), ASM (ATM Service Module), VPM (voice packetization module)

SHELF CONFIGURATION

- 1 to 4-shelf system, 14 Universal line module slots, 2 special slots for control module, 2 special slots for IP aggregation module, 2 half-slots for power modules

SYSTEM SCALABILITY

- 2880 POTS/ADSL or 1344 POTS+ADSL lines

CALL SIGNALING AND MEDIA PROTOCOLS

- V5, H.248, MGCP (RFC3435), RTP/RTCP

MEDIA PROCESSING CAPABILITY

- G.711, G.729 AB, G.723.1, G.726, T.38, RFC2833, G.168 Echo cancellation, Voice Activity Detection (VAD) and Comfort Noise Generation (CNG), Support Bellcore, ETSI, China, NTT, UK CID standard. Tone Detection and Generation, G711 Appendix I & II, Packet Loss Concealment & Recovery (RFC2198, RFC2733).

CALL FEATURES

- Basic, Supplementary and Centrex call features, 50K BHCA 0.1 Erlangs/60s

FAX MODEM

- Transparent Fax and Modem, T.38 support

LAYER 2 FEATURES

- Wire-speed switching engine, Rapid Spanning tree (IEEE 802.1 W), VLAN (IEEE 802.1Q), IGMP snooping (v1/v2/V3), MAC layer Class of Service (802.1 p), IPTOS based Class of Service, Port mirroring, Black list, MAC-based port locking

IP-xDSL

- ADSL Full rate (ITU-T G992.1) and G.Lite (ITU-T G.992.2), ANSIT1.413, SHDSL (ITU-T G.991.2/ G.994.1), ADSL2/ADSL2+ (ITU-T G.992.3/G.992.5); VDSL2 (ITU-T G.993.2)

NMS

- GUI based network management platform, SNMP, XML based Northbound interface

REMOTE LINE TESTING

- Metallic loop testing for subscriber lines Built-in loop test for FXS9 and broadband

RELIABILITY AND HIGH AVAILABILITY

- Hot standby, dual clock and dual power

INTEROPERABILITY

VOIP

- Interoperates with UTStarcom's mSwitch® in addition to other 3rd party soft-switch platforms that comply with IETF/ITU-T standards

TDM

- Interoperates with all industry standard PSTN switches as per ITU-T specifications

SDH/E1

- Interoperates with all industry standard equipment as per ITU-T standards

IP

- Interoperates with all industry standard layer 2/3 switch equipment as per IEEE / IETF specifications

PLATFORM OPERATING POWER/VOLTAGE

MAXIMUM POWER CONSUMPTION

- 1400watts @ -48V for a chassis fully loaded with 48-port IPADSL modules

MAXIMUM CURRENT

- 30A @ -48V

VOLTAGE INPUT

- -40VDC--- -60VDC;

PHYSICAL (PURE STANDALONE CHASSIS DIMENSIONS)

iAN8K B1000RA SHELF (HxWxD)

- 444 mm x 482 mm x 442 mm

iAN8K B1000RA+ SHELF (HxWxD)

- 533 mm x 482 mm x 498 mm

iAN8K B1000 FA SHELF (HxWxD)

- 710mm x 482mm x 334mm

RACKS/CABINETS

- Open CO racks, indoor as well as outdoor cabinets as per customer applications

MOUNTING

- 19"inch Rack mount (Standard)

ENVIRONMENTAL

OPERATIONAL TEMPERATURE

- 0°C - 55°C (none-harden, system ambient)
- or -5°C - 65°C (harden, system ambient)

RELATIVE HUMIDITY

- 5% - 90% (non-condensing)

STORAGE TEMPERATURE

- -40°C ~ 70°C

ACOUSTICAL NOISE

- Less than 75 dBA

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About UTStarcom, Inc.

UTStarcom is a global leader in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless, and handset solutions to operators in both emerging and established telecommunications markets around the world. UTStarcom enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks. Founded in 1991 and headquartered in Alameda, California, the company has research and design operations in the United States, China, Korea and India. UTStarcom is a FORTUNE 1000 company. For more information about UTStarcom, visit the company's Web site at www.utstar.com

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