

## iAN8K B1000 Multimedia Network Edge

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



- UPTO 2880 POTS / 2688 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 allows service providers to efficiently add services and applications without incurring additional infrastructure expenses. In addition, the iAN8K B1000 can enable 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.

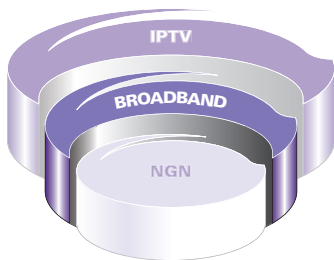
### APPLICATIONS

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 allows 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 can enable 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 / STM-16 interface for GEAPON /GPON transport
- Built in voice band and broadband loop testing
- Out-of-band management for robust security



## 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/2688ADSL 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 0.1Erlangs/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), ANSI T1.413, 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 line
- Built-in loop test for FXS9 and broadband

## RELIABILITY AND HIGH AVAILABILITY

- Hot standby
- Dual clock
- 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 @ -48 V

### VOLTAGE (BATTERY POWERED)

- -40VDC--- -60VDC

## PHYSICAL (PURE STANDALONE CHASSIS DIMENSIONS)

### iAN8K B1000RA SHELF (H X W X D)

- 444 mm x 482 mm x 442 mm

### iAN8K B1000RA+ SHELF (H X W X D)

- 533 mm x 482 mm x 498 mm

### iAN8K B1000 FA SHELF (H X W X D)

- 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 - 45°C (none-harden, system ambient)
- -5°C - 50°C (harden, system ambient)

### RELATIVE HUMIDITY

- 5% - 90% (non-condensing)

### STORAGE TEMPERATURE

- -40°C ~ 70°C

### ACOUSTICAL NOISE

- Less than 75 dBA

## REGULATORY COMPLIANCES

- CE
- VCCI Class A
- ITU-T K.20
- FCC Part 15 Class A
- EN60950/UL 60

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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](http://www.utstar.com)

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