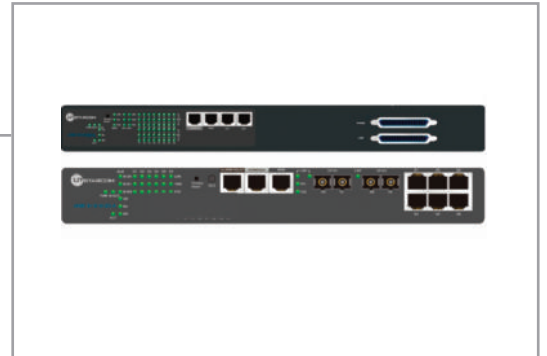


iAN8K B120

SERVICE ENABLING COMPACT MSAP

STACKABLE 1U MSAP FOR REMOTE TERMINAL DEPLOYMENT



KEY FEATURES:

- **24-PORT ADSL2+/VoIP**
- **CARRIER GRADE PERFORMANCE**
- **REMOTE HARDEN**
- **HIGHER BIT-RATES**
- **TRIPLE PLAY SERVICES**

UTStarcom's iAN8K B120 is an innovative, affordable, easy-to-install, 1U form factor mini-MSAP(multi-service access platform). The B120 enables Service Providers to offer a wide selection of DSL/VoIP services to areas that are beyond the reach of typical CO based MSAPs, because it can be deployed close to the customer premise. It is hardened for such deployments.

Deployment of the iAN8K B120 shortens "the last mile" by reducing the copper loop length in FTTB environment. This can enable Service Providers to offer higher bandwidth and increase broadband subscriber penetration.

PRODUCT DESCRIPTION

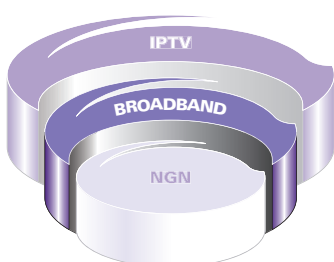
The 24-port VoIP/ADSL2+ iAN8K B120 shares the similar cost-effective high performance characteristics featured in UTStarcom's market-leading chassis-based iAN8K B1000 family. Including the integrated splitter, this B120 occupies a mere 1U of rack space. In addition, multiple units may be stacked together and managed as a single device, providing the flexibility and scalability required for cost-effective incremental pay-as-you-grow strategies. Configurable optical IP/Ethernet uplink interfaces provide the bandwidth and reach required to backhaul traffic to the broadband central office. The system provides multicast, quality of service (QoS) and comprehensive VLAN features. This combination of features, coupled with its slim form factor, make the iAN8K B120 an ideal platform for deploying bandwidth intensive, high revenue services incrementally, and in space-restricted environments.

The B120 provides VoIP capability through media conversion and VoIP signaling support. It supports standard Voice Codec (G.711, G.729A, G.723.1, and G.726). It provides similar voice quality, reliability as the traditional telephones and supports CENTREX services for business users. With T.38 fax over IP support, customers can provide real-time, secured, reliable and free fax service. It supports the mainstream VoIP signaling protocol like MGCP.

APPLICATIONS

The iAN8K B120 shortens the copper loop-length to the subscriber, resulting in higher bit-rates. This allows delivery of multiple services over a single copper loop. New service bundles are now made possible, combining Internet access, corporate LAN access, Voice-over-IP and IPTV/multimedia services.

It can be used in CO Extension, FTTB, Broadband Enterprise, Campus and Hospitality Applications.



Technical Specifications



MANAGEMENT

Network Management SNMP v2
UTStarcom Netman™ 4000 GUI
CLI Support
In-Band Management (within data plane)

Telnet
LOG on management system, Show PORT LOG
SNTP
Out of Band Management (Dedicated 10/100 Ethernet Port)

HARDWARE

	MASTER	SLAVE
Dimensions (H x W x D)	44.45mm (1.73 in.) x 440mm (17.32 in.) x 280mm (11.02 in.)	
Power Supply	-40 to -60VDC(-48V typical) or 90 to 260VAC(220V typical)	
Power Consumption	52W Max	150W Max

OPERATING REQUIREMENTS

Temperature -14° to +149°F (-10° to +65°C)
Relative Humidity 5% - 95% (non-condensing)

STANDARDS AND REGULATORY COMPLIANCES

Regulatory EN 300 386, EN 55022, IEC 61000-3-3,-4-2,-4-3,-4-4, -4-5, -4-6
FCC part 15

FRONT PANEL

Interfaces	UP LINK G1/G2: 1000Base-FX (Network Uplink)	UP: One 1000 Base-TX Interface for Uplink
	G1 – G6: 6 RJ45 10/100/1000 Base-TX for stacking slave	PHONE: 1 RJ21 Connector to exchange/PBX LINE: 1 RJ21 Connector to MDF
	CONSOLE: 1 RJ45 Serial management port MGN: 1 RJ45 out-of-band management port (Ethernet) Factory Reset: Button to reset the B120 to default configuration ACO: Alarm cut off button ALARM RELAY: RJ45 to relay B120 alarms ALM M-CR, M-MJ, M-MN: Master Alarms	CONSOLE: 1 RJ45 Serial management port MGN: 1 RJ45 out-of-band management port (Ethernet) Factory Reset: Button to reset the B120 to default configuration
	PWR: B120 power indicator M-ACT: Master operational status Indicator ACT: DSL Portion operational status G1 to G6 LINK/1000/FDX: GE subtending port status	ALM CR, M.J, MN: Slave Alarms PWR: B120 power indicator ACT: DSL subsystem operational status Indicator UP/MGN LINK/1000/FDX: GE uplink port status DSL 1-24: DSL port status VoIP 1-24: VoIP port status

LEDS

REAR PANEL

GND Connector (connect Ground/Earth) Power Socket

INTERFACES / PROTOCOLS

ADSL INTERFACE

Ports 24 ADSL/ADSL2/ADSL2+ Multimode Ports
Line Rate Up to 24 Mbps (downstream)
Up to 3 Mbps (upstream)
Line Standard Support ITU-T G.992.1, G.992.2, G.992.3, G.992.5
ANSI T1.413-1998,
Annex M and Annex L
Annex A and Annex B on different Modules
Auto Fallback Support
ATM Support Up to 8 PVCs per port
F5 loopback
POTS Splitter Integrated, with ITU-T K.20 surge protection
(On most models)
Power Modes L0, L2 and L3 Modes to save power
DSL Line Test DELT, SELT
POTS Line Test Metallic Line Test Support
POTS FEATURES 12/16KHz metering pulse
Internal ringer (80Vrms+/-10V)
with 24 REN ringer capacity
24mA to 32mA loop current
VAD and CNG generation
CID Generation (NA, Japan, ETSI and DTMF)
Echo cancellation (G.168) 16ms
echo tail length
Codec: G.711, G.723, G.726 and G.729A
MGCP protocols
DTMF Relay RFC 2833
T.38 Fax Relay
Call Forwarding, Call Holding
Incoming Call Barring
Country Specific Tones and Ring Cadence

VoIP FEATURES

VoIP FEATURES (cont.)

VLAN and TOS tagging
NAT Traversal (STUN)

L2/L3 INTERFACE

General Units Single IP management and stacking (up to 6 units)
L2 Switch Capability VLAN Up to 4K MAC address learning
Link aggregation / Trunking support
Up to 512 VLANs
IEEE 802.1q and 802.1ad VLAN
Management VLAN (in-band & out-of-band)
Multicasting IGMP v1 /v2 Snooping
Up to 256 multicast groups
Multicast VLAN support
Dynamic & Static Configuration
Fast Leave
Line Identification Quality of Service DHCP option 82 Insertion
Eight-level CoS, 4 Q per DSL port
IEEE 802.1p based COS
STP/RSTP (IEEE 802.1d/w)
RFC 2684/1483 bridged and routed modes
Spanning Tree Encapsulation Security Filters ACLs Static MAC addresses
Packet filtering (IP, MAC)
256 ACLs per Slave module

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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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