

iAN8K B110

SERVICE ENABLING COMPACT IP DSLAM COMPACT 1U DSLAM FOR REMOTE TERMINAL DEPLOYMENT



KEY FEATURES:

- **24-PORT IPDSLAM**
- **STACK UP TO 144 PORTS**
- **ADSL/ADSL2/ADSL2+**
- **ANNEX L/ANNEX M**
- **HIGHER BIT-RATES**
- **TRIPLE PLAY SERVICES**
- **REVENUE PROTECTION**

UTStarcom's iAN8K B110 IPDSLAM is an affordable, easy-to-install, 1U form factor mini-IPDSLAM. The B110 enables Service Providers to offer a wide selection of DSL services to areas that are beyond the reach of typical CO based IPDSLAM, because it can be deployed close to the customer premise.

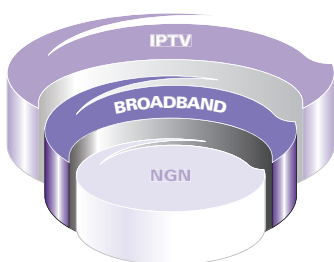
Deployment of the iAN8K B110 shortens "the last mile" by reducing the copper loop length. This can enable Service Providers to offer higher bandwidth and increase broadband subscriber penetration.

PRODUCT DESCRIPTION

The 24-port ADSL2+ iAN8K B110 shares the same cost-effective high performance characteristics featured in UTStarcom's market-leading chassis-based iAN8K B1000 family. Including the integrated splitter, this B110 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 growth strategies. Configurable optical IP/Ethernet uplink interfaces provide the bandwidth and reach required to backhaul traffic to the broadband central office. Uplink interface are flexibly configurable based on actual network requirements, and include 100/1000Base-TX (supports six GE ports for stacking). In addition, the B110 supports 8 PVCs and enables remote CPE management. The system provides feature for multicast, Layer 2 quality of service (QoS) and virtual LAN. Complied Standards have responded with the current work in the IEEE 802.1p, IEEE 802.1Q standards groups and DiffServ working group. It supports IGMP snooping to provide scalable solution for IPTV. This combination of features, coupled with its slim form factor, make the iAN8K B110 an ideal platform for deploying bandwidth intensive, high revenue services incrementally, and in space-restricted environments.

APPLICATIONS

The iAN8K B110 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.



Technical Specifications



MANAGEMENT

Network Management SNMP v1/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
Dimensions (H x W x D)	44.45mm (1.73 in) x 440mm (17.32 in.) x 280mm (11.02 in.)
Power Supply	-48VDC, or 100 ~ 240 VAC
Power Consumption	72W

SLAVE

49W

OPERATING REQUIREMENTS

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

STANDARDS AND REGULATORY COMPLIANCES

Regulatory CISPR 22; EN 300 386, EN 55022, IEC 61000-3-3,-4-2,-4-3,-4-4, -4-5, -4-6
Safety FCC part 15, ICES-003, ANSI C63.4-2004

FRONT PANEL

Interfaces

LINK UP G1/G2: 1000Base-LX (Network Uplink) (2 GE on some models)

UP: One 1000 Base-TX Interface for Uplink OR

Two 100 Base-TX Interfaces for Uplink (Model Dependent)

PHONE: 1 RJ21 Connector to PSTN
LINE: 1 RJ21 Connector to subscriber
G1 – G6: 6 RJ45 10/100/1000 Base-TX for stacking slave modes

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CONSOLE: 1 RJ45 Serial management port
MGM: 1 RJ45 out-of-band management port (Ethernet)
Factory Reset: Button to reset the node to default configuration

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ACO: Alarm cut off button
ALARM RELAY: RJ45 to relay node alarms
ALM M-CR, M-MJ, M-MN: Master Alarms
ALML CR, MJ, MN: DSL Alarms
PWR: Node power indicator
M-ACT: Master operational status Indicator
ACT: DSL Portion operational status
G1 to G6 LINK/1000/FDX: GE subtending port status
DSL 1-24: DSL port status

ALM: CR, MJ, MN: Master Alarms
PWR: Node power indicator
ACT: DSL subsystem operational status Indicator
UP1(2)/ MGM LINK/1000/FDX: GE uplink port status
DSL 1-24: DSL port status

LEDS

REAR PANEL

HGND 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.992.3, 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

OPTICAL INTERFACE

Master Uplink SM 1310nm, 10Km Integrated Optics
L2/L3 INTERFACE
General Units Single IP management and stacking (up to 6 units)
L2 Switch Capability Up to 4000 MAC address learning
Link aggregation /Trunking support

L2/L3 INTERFACE (cont.)

VLAN Up to 512 VLANs
IEEE 802.1q and 802.1ad VLAN
1:1 and N:1 VLAN and Stacking Support
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 DHCP option 82 Insertion, PPPoE Intermediate
Quality of Service IEEE 802.1p based COS relay
Eight-level CoS, 4 Q per DSL port
Packet Classification and Tagging
Spanning Tree STP/RSTP (IEEE 802.1d/w)
Encapsulation RFC 2684/1483 bridged and routed modes
Security Static and Semi Static MAC addresses
Packet Policing for IP/MAC binding with ports
User Isolation
Filters Packet filtering (PPPoE, DHCP, IP, MAC)
ACLs 172 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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