IRIS IVDX *Cloud* - *3U Module*
A Versatile Media Gateway

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IRIS IVDX Cloud - 3U Module is a versatile hardware that can function as a standalone IP-PBX with SIP switching at its core or it can work as a media gateway when registered to a central Soft-switch. Each standalone box supports multiple protocols for ease of operations. It is designed with IMS architecture in mind yet can provide all the enterprise features in a standalone mode. It can further cascade for seamless connectivity with adjacent similar switches in a network thus providing immense amount of resilience.

IRIS IVDX Cloud - 3U Module offers connectivity to all legacy and next generation telecom networks right from POTS, PSTN, ISDN, E1/PRI to GSM to IP, in a single box. It provides easy migration from legacy systems to current and new-age IP based infrastructure. Innovative, reliable and scalable, the IRIS IVDX Cloud - 3U Module integrates voice, video and are loaded with business-enhancing features such as Unified Communications with integrated Voice Mail, Contact Center etc.

Functionality
- SIP Standard
- IPv6 Ready
- Redundancy of CPU & Power Supply
- Matured Call & In Progress Call recovery in HA mode
- Inbuilt SIP Registrar
- Heart-beat Functionality
- Dual Gigabit Ethernet Port
- Link/Network Redundancy
- Support Proprietary Digital Key Phone's
- Multi-protocol Support
- Supports multiple type of TDM interfaces (FXS/FXO/ENM/E1/PRI/GSM/RADIO)
- Self - Survivability for Analog, Digital & IP Phones
- Modular architecture for easy scalability
- Toll grade voice compression
- Echo cancellation, Jitter Buffer, VAD and CNG
- Complies with latest version (RFC3261) SIP protocols
- Enhanced capabilities which include MWI, metering tones
- Best suitable for SIP based hosted communications and centralized IP-PBX applications.
- Easy configuration and installation
- Supports all standards telephony features such as Call Hold, Call Transfer, Message Wait Lamp, Call Waiting, do not disturb, Caller Id presentation, Conference, Hotline, Etc.
- 19" Rack Mountable Design

Technical Specifications

Design Architecture

Archltecture	: Unlversal Slot
Interface Support	: Hybrid
Survivabillty	: Self-Survival
Port Capacity	: 512 Ports

Interface Characteristics

FXS Interface

Configuration	: 8/16/32 Ports
Line Voltage	: 48 Volt
Dialling	: DTMF (As p e r ITU-T Q . 2 3)
	Decadic (10/20 PPS)
Caller Id	: DTMF (As per ITU-T Q.23)
	: FSK (Bellcore 202)
Loop Resistance	: 3000 Ohm
Open loop resistance	: >10K
Ringing Voltage	: 75 V AC + 10 %, 20-25 Hz
Physical Interface	: 8 Port - RJ45
	: 16/32 Port - Telcom Connector

FXO/CO Interface

Configuration	: 8 Ports
Open Loop resistance	: >10K Ohm
CLI Detection	: DTMF CLI (ITU-T Q.23) Ring
Voltage Detection	: 15 V RMS minimum
Physical Interface	: Universal Telco Connector
Termination impedance	: 600 Ohm
Physical Interface	: RJ45

Universal Digital Trunk Interface

PRI

ITU Standard	: ITU G.703
Frame Structure	: ITU-T G.704, G.732
Signalling	: ISDN PRI CCS (Q.931)
Line Coding	: AMI

E1

Bit Rate	: 2048 Kbps
Signalling	: CAS
Line Coding	: HDB3
Physical Interface	: RJ-45

DCC - Digital Communication Card

Configuration	: 8 Ports
Line Voltage	: 48 Volt
Channel Capacity	: 2B+D
Transmission Rate	: 144 Kbps
Physical Interface	: RJ-45

Redundancy

CPU	: Redundant *
PSU	: Redundant *
Ethernet Link	: Redundant

VoIP Characteristics

SIP	: RFC3261, RFC3264, RFC 3265
	: RFC 3515 (REFER), RFC3435 (MGCP)
	: RFC 2782 (DNS SRV), RFC 3428 (IM)
SDP	: RFC 2327
RTP / RTCP	: RFC 3350
Jitter	: Adaptive Jitter buffer
SIP DTMF Signalling	: RFC2833
	: SIP INFO
	: DTMF - Inband audio tone
Conference	: Supported
Codecs Supported	: G.711A/PCMA, G.711U/PCMU
	: G.723, G.726, G.729, GSM, iLBC
FAX Support	: T.38

Network Protocols

Protocol Supported	: IP (IPv4/IPv6), HTTP, HTTPS, Telnet,
	: SSH, TFTP, VLAN (802.1Q), SNMP

Management and Security Features

Management Port	: Through Ethernet interface
	: 1 x RS232
	: Built-In Command line interface
Backup & Restore	: TFTP
Access Security	: User / password protected
	: secured shell (SSH) access
	: multiple level login to MGW
Interface Cards	: Hot Swappable
Tones Generation	: Inbuilt in Gateway
Music on Hold	: Local & Remote

Physical Interface

Serial Interface	: 1*RS232 Port
Ethernet Interface	: 2 No's 10/100/1000 Mbps with link redundancy

Environmental Specifications

Operating	: 0°C to 45°C
Storage Temperature	: -10 °C to + 70 °C
Relative Humidity	: Up to 95% Non-Condensing

Electrical Characteristics

AC Power operation	: 220 VAC/50Hz
DC Power operation	: -48 V DC
Power consumption	: 0.8 W / Port (max)

Physical Characteristics

Form Factor	: 19" Rack Mountable Chassis

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