

# iSX1000 Universal Application Platform

## Introduction

The Ehangcom iSX1000 platform is a multi-service media platform targeted for small to medium scale deployments in both legacy TDM network and the IP network. Its modular design allows users to mix and match the feature modules including TDM interface, signaling and media resources for deployments at optimized cost.



**iSX1000 Universal Application Platform**

iSX1000 uses the best-in-class DSP technologies for IVR, 3G-324M video, VoIP and signaling capture modules in their

categories. In contrast with host based media processing solution which shares the same pool of resources as OS and applications, DSP technologies offer dedicated, predictable and scalable performance for media processing, especially for resource-intensive functions like echo cancellation, VoIP codec and video transcoding.

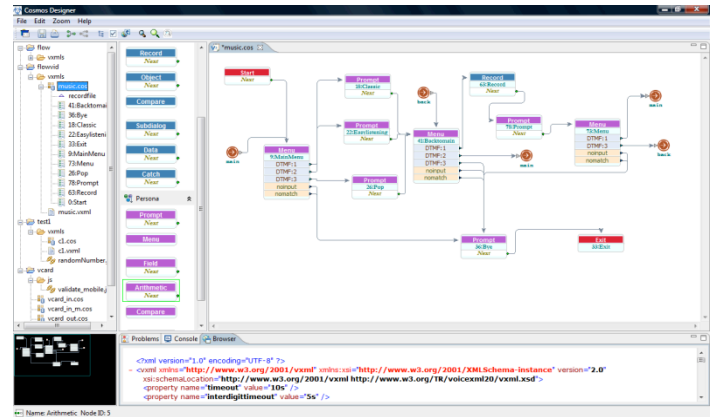
## Service Delivery Platform

The COSMOS Service Delivery Platform offers Drag-and-drop GUI Service Creation Environment (SCE) with the enable development application developers to shorten voice VXML 2.1 and CCXML 1.0 compliant interpreter, which, video and NGN application development cycle to quickly respond to today's fast changing market.

Operators can deploy iSX1000 platforms in a centralized location to reduce OPEX and share the platforms to run applications developed by VAS companies in different locations.

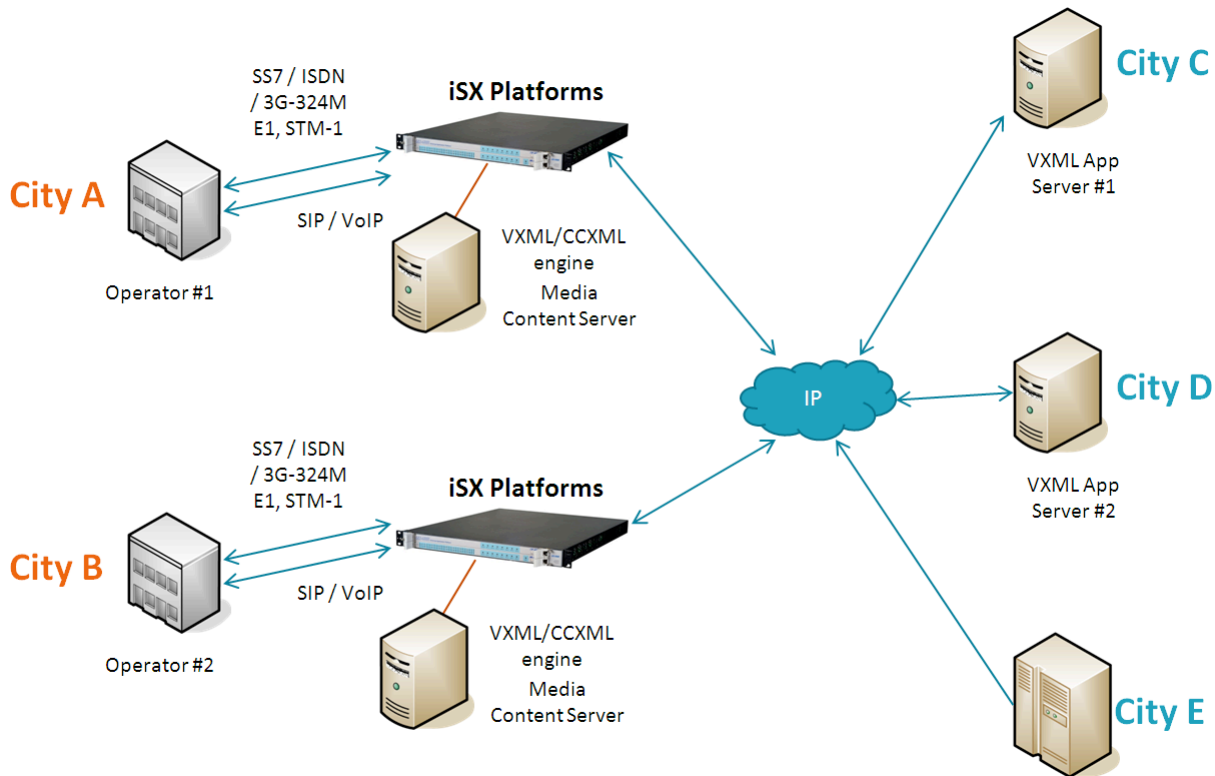
Alternatively, VAS service providers can deploy applications in a centralized location to reduce OPEX with iSX1000 platforms in different locations.

The compact 1U form factor, with optional internal host, helps operators to significantly save rack space and better utilize the expensive data center space and hence reduce total cost of ownership.



COSMOS Service Creation Environment

# iSX1000 Platform Deployment Scenarios



Multiple & distributed applications deployed at multiple operators

# Features & benefits

## Key Features

## Benefits

### Modular design

Offer investment protection and migration path for IMS applications

### Multiple interfaces (T1/E1, FXO/FXS, VoIP) and signaling protocols (ISDN, SS7, SIP, loop start)

Applications can be connected to different networks

### Multi-service DSP media resources for IVR, video, VoIP and signaling capture

More predictable and scalable voice and video processing density than host based media processing technology

### Drag-and-drop GUI Service Creation Environment (SCE), VXML 2.1 and CCXML 1.0 compliant, GUI OAM interface, C++ APIs

Choice of reducing time to market or flexibility to develop complicated niche applications

### Distributed system architecture

Centralized platform to reduce OPEX for operators or centralized application to reduce OPEX for VAS service providers

### Compact 1U form factor with optional internal host

Save rack space & reduce total cost of ownership

## Voice Applications

- IVR
- Outbound dialer
- Call center
- Missed call alert
- Voice SMS
- Conferencing
- Unified messaging
- Lawful interception
- Location-based services

## Video Applications

- Video Mail
- Video Ringback Tone
- Video Avatar Messaging
- Interactive Video & Voice Response (IVVR)
- Mobile TV
- Video on Demand
- Video Contact Centers
- Live video streaming
- Video Chatting
- Mobile Video Conference
- Video Travel & Infotainment

# Specifications

## Telephony interfaces

8 E1 / T1 / J1  
T1: ANSI T1.102, T1.403  
E1: G.703  
RJ-45 connector  
Analog Ports (FXO / FXS): 120

## IP interfaces

LAN Port (10/100) 4

## Signaling protocols

### SS7

64 kbps link 8  
OPC 4  
DPC 32  
BHCC 1,800,000  
Call processing capacity 50 cps  
CIC quantity 256

### ISDN PRI

D Channels 8  
BHCC 1,800,000  
Call transaction capacity 50 cps

### SIP

Channels supported 512  
Call processing capacity 300 cps  
BHCC 1,080,000

## Resource capacity – IVR, video, VoIP, sig capture

Media Resources Slot 3  
Max IVR Resources 768  
Max Conference Group 768  
Max VoIP Channels (G.723) 384  
Max Signaling capture 384 links

## Development environment

C++ APIs or  
COSMOS Service Delivery Platform (GUI SCE with  
VXML/CCXML interpreter)

## Management

GUI OAM interface  
SNMP traps  
Signaling tracing, analysis & debugging

## Physical dimensions and power

### Dimension

Height 90 mm (2U)  
Width 443 mm  
Depth 420 mm  
Weight 12 kg

### Power Supply

AC Input 220 V (176V ~ 240 V), 50 /  
60 Hz, 3A (maximum)  
Power consumption < 300 W full loaded