

# iSX4000 Universal Application Platform

## Introduction

The Ehangcom iSX4000 platform is a multi-service media platform targeted for large-scale deployments in both legacy TDM network and the IP network. In a compact 1U form factor, it offers 64 T1/E1, STM-1, ISDN, SS7, SIP and 4096 channels of IVR resources. Its modular design allows users to mix and match the feature modules including TDM interface, signaling and media resources for deployments at optimized cost.



**iSX4000 Universal Application Platform**

iSX4000 uses the best-in-class DSP technologies for IVR, 3G-324M video, VoIP and signaling capture modules in their categories. In contrast to 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.

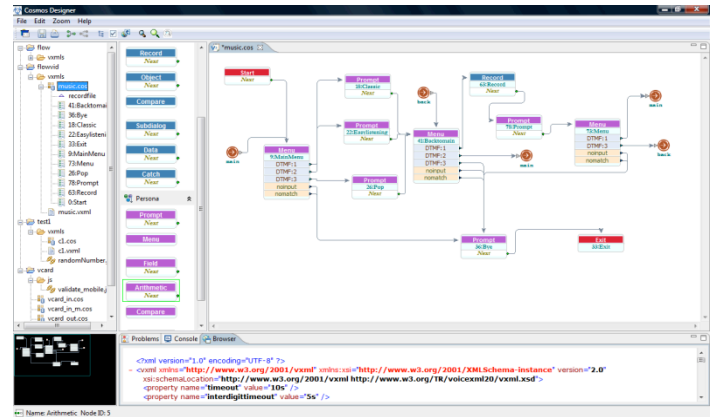
## Service Delivery Platform

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

Operators can deploy iSX4000 platforms in a centralized location to reduce OPEX and share the platforms to run applications developed by VAS companies in different locations.

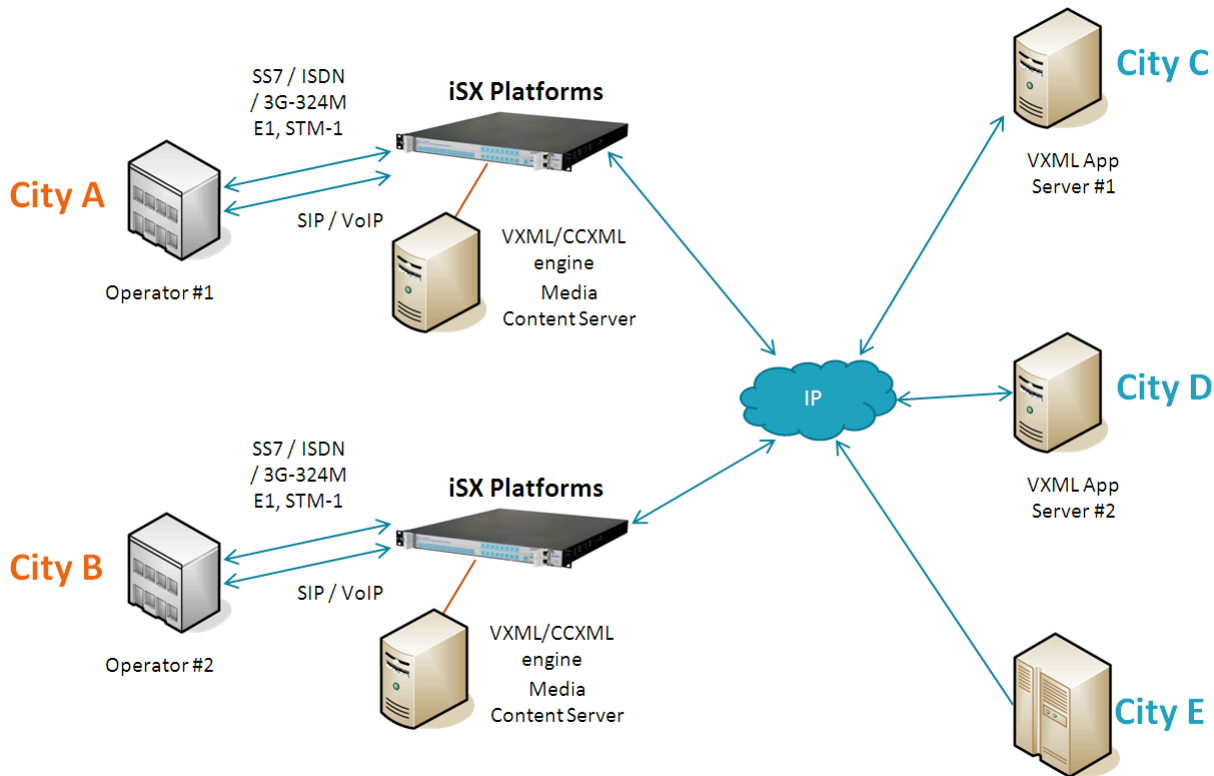
Alternatively, VAS service providers can deploy applications in a centralized location to reduce OPEX with iSX4000 platforms in different locations.

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



COSMOS GUI Service Creation Environment

## iSX4000 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

STM-1 Optical Fiber  
64 E1 / T1 / J1  
T1: ANSI T1.102, T1.403  
E1: G.703  
SCSI-3 connector (per 16 E1)

## IP interfaces

LAN Port (10/100) 4

## Signaling protocols

### SS7

64 kbps link	256
OPC	64
DPC	128
BHCC	1,440,000
Call processing capacity	100 cps
CIC Quantity	8,000

### ISDN

D Channel	64
BHCC	1,440,000
Call processing capacity	100 cps

### SIP

Concurrent Channel	2000
Call processing capacity	300 cps
BHCC	1,080,000

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

Media Resources Slot	16
Max IVR	4096
Max Conference Group	4096
Max VoIP Channels (G.723)	2048
Max Signaling Capture	1024 links
Max 3G-324M video	1024

## 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	44.3 mm
Width	443.0 mm
Depth	531.8 mm
Weight	15 kg

### Power Supply

Power Input	-58 ~ -40 V
Power consumption	250 W