



## 3G-324M Video Platform

### Introduction

The Ehangcom 3G-324M video platform is based on iSX1000 or iSX4000 Universal Application Platform. iSX1000 targets small to medium deployment up to 192 channels of 3G-324M video per system and iSX4000 targets high-density deployment up to 1024 channels of 3G-324M video per system. Its modular design offers low entry cost for small deployments, which make it ideal for proof of concept for new VAS services. Its field upgradeable flexibility allows operators to expand capacity quickly for popular VAS services to capture market opportunities.

The Ehangcom 3G-324M video platforms use the best-in-class, dedicated DSP technologies for 3G-324M video processing and transcoding. In contrast to host based media processing solution which shares the same pool of resources as the OS and applications, DSP technologies offer dedicated, predictable and scalable performance for video media processing, especially for resource-intensive functions like video transcoding and transrating.

### 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 video application development cycle to quickly respond to today's fast changing market.

Operators can deploy 3G-324M video 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 video applications in a centralized location to reduce OPEX with 3G-324M video 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.

## Features &amp; benefits

Key Features	Benefits
<b>Modular design</b>	Suitable for small to large deployments
<b>Multiple interfaces (T1/E1, STM-1, RTP) and signaling protocols (ISDN, SS7, SIP)</b>	Applications can be connected to different networks
<b>Fast Call Setup including SRP, NSRP, WNSRP, MONA*</b>	Reduce setup time to improve user experience on 3G video VAS services
<b>Comprehensive codec support</b>	Ensure 3G handset interoperability
<b>Video editing like image overlay &amp; text overlay</b>	Facilitate 3G video application varieties
<b>Dedicated DSP media resources for real-time video transcoding and transrating</b>	More predictable and scalable video processing density than host based media processing technology
<b>IP streaming by RTSP and HTTP GET</b>	Seamlessly bring content from media sources on IP network to 3G handsets

## Applications

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

## Specifications

3GPP-324M	H.223, Annex B (Level 2) H.245 ver 11
Fastcall setup	H.324 Annex A, C (SRP/NSRP/WNSRP) H.324 Annex K (MONA) *
Audio processing	Passthrough and transcoded AMR-NB, AAC, G.711 transcoding
User indications	H.245 UII RFC 2833 In-band DTMF
Video transcoding	H.263, MPEG-4 part 2, H.264
Video size adaptation	QCIF, CIF
Media transport	RFC 2429, RFC 2190 (H.263) RFC 3267/IF2 (AMR) RFC 3016 (MPEG-4)
Network protocols	ISDN PRI, SS7 ISUP, TUP, SIP
TDM interfaces	T1/E1, STM-1
IP interfaces	Dual Gigabit Ethernet
Application development	C++ APIs or COSMOS Service Delivery Platform (GUI SCE with VXML/CCXML interpreter)
Management	GUI OAM interface SNMP traps Signaling tracing, analysis & debugging
System capacity	192 channels of 3G-324M on iSX1000 1024 channels of 3G-324M on iSX4000

## Resource capacity – 3G-324M, supported transcoding matrix

Real-time transcoding	H.263 (QCIF) / AMR	MPEG-4 (QCIF) / AAC
Video: Static JPG Audio: Local file	512	512
Video: H.263, 176x144 (QCIF), 15fps Audio: AMR 8KHz Mono	256	256
Video: MPEG-4 ASP, 176x144 (QCIF), 12fps Audio: AAC 22KHz Mono	192	192
Video: H.264, 480x360, 24/30 fps Audio: AAC 44.1KHz Stereo	48	44

*\* planned to be available in Q1 2011*