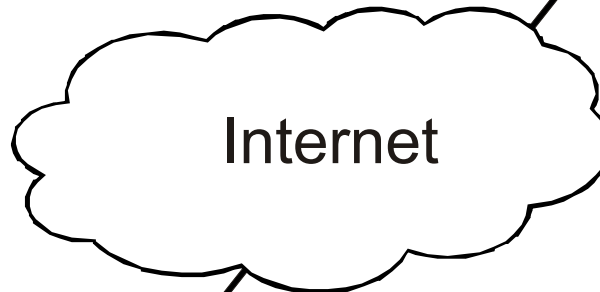
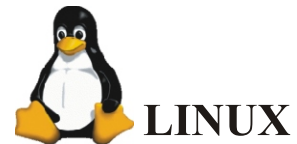


iW-Videophone is the best of its kind, ready to manufacture “Voice and Video over IP Phone” reference design based on Freescale's i.MX27 processor, which can be easily customized to build high performance, cost effective videophones. This feature rich design enables OEMs and ODMs to develop low cost, high quality, stable products meeting short time to market demands.

Features

- ❖ Highly portable device
 - ◆ Touch screen based design
 - ◆ Battery backup support
- ❖ Wired / Wireless LAN Connectivity
- ❖ Three way / Two way video / audio conferencing
- ❖ Multiple Video, Audio input / output interfaces
- ❖ Support for multiple video resolutions
- ❖ Up to VGA resolution with H.263/H.264/MPEG4 codecs
Upto 30fps
- ❖ Operating System Supported
 - ◆ Linux (Vericall Edge from Trinity Convergency)
 - ◆ Android (Linphone)



Target Applications

- ❖ Video IP Phones for home
- ❖ Enterprise video communication / conferencing
- ❖ Telemedicine



About Us

iWave Systems Technologies is an embedded Hardware and Software Turnkey Design Services company, focused on providing integrated solutions for developing innovative products and systems in the areas of Communication, Consumer electronics and Multimedia. iWave offers complete turnkey solutions for systems engineering and product development.

SPECIFICATIONS

Chipset

Freescale i.MX27 @ 400MHz
Data path - 32bit @ 133MHz

Memory

Flash: 128 Mbyte NAND Flash upgradable to 2Gbyte
DRAM: 128 Mbyte Mobile DDR SDRAM

Communication Interfaces

USB

USB 2.0 High Speed Host (Type-A Connector)
USB 1.1 Full Speed Host (Type-A Connector)

Ethernet

2 switched 10/100 Base-T Ethernet ports (RJ-45)
OR
One 10/100 Base-T Ethernet port (RJ-45)

SD Interfaces

One SDIO 1.0 interface for user interaction
One SDIO 1.0 interface for optional 802.11b/g WLAN Card.

Audio / Video Interfaces

7" Digital Color TFT LCD display with touch panel,
WVGA resolution
CMOS Camera - VGA resolution
Built in Hands free mic and Stereo speaker
Headset interface through 3.5mm Audio Jack
TV Out - Auxilairy composite video, audio out,
VGA resolution (RCA Phono)
TV In - Auxilairy composite video, audio out
VGA resolution (RCA Phono)

Optional Features

Battery Backup
WLAN
Keypad
VGA Out interface
Multiple UART interfaces

Miscellaneous

Power jack for external 5V DC power adapter
RS-232 interface for debug
Environmental Requirements
Operation Temperature: 0 ~ 45 deg C
Storage Temperature: -40 ~ 70 deg C
Humidity : 10%~85%

Video Features

Video Codecs: H.264, H.263, MPEG4
VGA, CIF, QCIF and SQCIF at 30fps
Picture-in-picture
Audio Video lip sync
3-way video conferencing
LCD/TV out

Audio Features

Voice Codecs: G.711 A/u, G.723.1, G.726, G.729A/B,
Speex
Audio Codecs: MP3, MIDI
Echo Cancellers: G.168, Acoustic Echo Suppressor
Voice Activity Detection, Comfort Noise Generation
Adaptive jitter buffer

Network Features

SIP V2 (RFC 3261)
NAT Traversal: STUN and TURN
IP Assignment: Statis/DHCP/PPPoE
DTMF Generation/Detection

Security

Secure RTP: AES, DES, Triple DES

Phone Features

Call Hold, Consultation Call Hold, Call Transfer
(Attended, Unattended), Do Not Disturb, Call
Forward, Call Mute, Call Waiting, Redial
3-way conferencing
Phone book

Call Management

Missed Calls, Received Calls, Placed Calls

Product Management

Firmware Upgrade: Console, TFTP, HTTP, HTTPS,
FTP

Value Added Features

Web browser
E-Mail, IM
Media Player
Digital Photo Frame
Still image camera (1.3Mpixel)

Contact Us

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Note : Specifications / features / images that are listed here may not be part of the standard configurations. Check with iWave Systems for your specific requirements.

iWave Systems reserves the right to change these specifications without notice.
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