

IP Set Top Box

065-9021 is an IP STB fully compatible with ISMA standard. It is widely used in communities, hotels and broadband environment for receiving MPEG-4 liveprogram and VOD. Meanwhile, with the support of head-end system, 065-9021 can be used for video shopping, network games, support EPG and so on.



Model Model 065-9021



Model 065-9021

FEATURES

- **Video Format:** MPEG-4 SP/ASP Video Decoding
- **Audio Formats:** MP3 and AAC
- **Picture Formats:** JPEG, BMP, PNG and GIF animated picture formats
- **Network Interfaces:** 1x10/100MBase-T RJ45
- **Browser:** Embedded browser, supports HTML network surfing
- **Supports IGMP Multicast,** which is capable of Receiving channelized of multicast programs
- **Transport Standard:** Open International Streaming Standard ISMA 1.0/1.1 and TS stream
- **Games:** JavaScript based network games
- **VOD:** Video/Audio programs on demand

IP Set Top Box

PART NO.	DESCRIPTION
065-9021	Signamax IP Set Top Box MPEG-4
065-9022	Signamax IP Set Top Box MPEG2
065-9023	Signamax IP Set Top Box MPEG2&4

FUNCTIONS

- **Media On demand:** Plays the video program in the playlist of EPG, supports play/stop/ pause/fast forwarding and backward/mute/volume up/volume down/Left and Right Audio channel/Stereo. It supports progress indication as well. It can also plays MP3 program in the play list of EPG supports play, stop, pause, mute, volume up, volume down and progress indication.
- **Multicast program:** Gets the channel information from the EPG and supports channel lineup. It does not support fast forwarding, fast backward, and pause. It supports mute, volume up, volume down, left and right Audio channels and stereo.
- **WEB Browsing:** Browses the Internet web pages of HTML 4.0 and Javascript 1.5 with the embedded browser.
- **Electronic Program Guide:** Enters the main EPG screen of the operator. Gets the information of the program and the playlist. Supports EPG dynamic upgrade, VOD, music on demand, picture viewing and network games.
- **Parameter configuration and display:** Supports PPPoE dialing through STB (modem bridge connection mode). Supports statically and dynamically obtain IP address. Configures the network parameter such as user name, password, DNS server, subnet mask, gateway and static IP address. Configures HTTP upgrade server, default PG server and default URL address. Modifies Password. Configures TV mode. Displays product information. Configures NTP server address. Configures Time Zone.

NETWORK CONNECTIVITY SYSTEMS

www.signamax.eu

SPECIFICATIONS

Model 065-9021

MEDIA FORMATS

Video Formats: MPEG-4 ISO/IEC 14496-2 Advance simple profile without GMC and QPEL
 Audio Formats: MP3 and AAC
 Picture Formats: JPEF and GIF static pictures

STREAMING PROTOCOLS

Internet Streaming Media Alliance (ISMA) Implementation Specification version 1.0, including the following: Transport Protocols:
 RTP: A Transport Protocol for Real-Time Applications, IETF RFC 1889; RTP Profile for Audio and Video Conferences with Minimal Control, IETF RFC 1890; Transmission Control Protocol, IETF RFC793;
 UDP: User Datagram Protocol IETF RFC768.
 RTP Payload formats: RTP Payload Format for Transport of MPEG-4 Elementary Streams, IETF RFC 3640
 Content distribution: MPEG-4 MP4 Format – ISO/IEC 14496-1:2000(E)
 Media controls: Real Time Streaming Protocol (RTSP), IETF RFC 2326
 Media Announce: SDP: Session Description Protocol, IETF RFC2327

Model 065-9022

VIDEO DECODING

Decoding Standard: ISO/IEC 13818-2 MPEG-2 MP@ML
 Video Format: PAL/NTSC/SECAM
 Aspect Ratio: 4:3, 16:9
 Output Definition: 720 x 480 or 720 x 576 SD

AUDIO DECODING

Decoding Standards: ISO/IEC 13818-3
 Decoding Formats: MPEG-1, 2, 3
 Sample Rates: 32, 44.1, 22.05, 24 and 48 KHz
 Output Modes: Single and dual audio channels

PROTOCOLS SUPPORTED

IP protocol: IP v4
 Network Protocols: HTTP 1.0/1.1, DHCP, IGMP v1/v2,
 TCP/IP, DNS, PPPoE and NTP
 Streaming Media Protocols: RTP/RTCP/RTSP/SDP

Model 065-9023

MEDIA FORMATS

Video Formats: MPEG-4 ISO/IEC 14496-2 Advance simple profile without GMC and QPEL
 Audio Formats: MP3 and AAC
 Picture Formats: JPEF and GIF static pictures

VIDEO DECODING

Decoding Standards: ISO/IEC 13818-2 MPEG-2 MP@ML,
 ISO/IEC 14496-10, MPEG-4 MP@L3
 Video Format: PAL/NTSC, Aspect Ratio: 4:3, 16: 9
 Output Definition: 720 x 480 or 720 x 576 SD

AUDIO DECODING

Decoding Standards: ISO/IEC 13818-3, ATSC A/52 and ISO/IEC 14496-3
 Decoding Formats: MPEG Layer1/2/3, AC3, MPEG-2/4 AAC (ADTS)
 Sample Rate: 32, 44.1, 22.05, 24 and 48 KHz

PROTOCOLS SUPPORTED

IP protocol: IP v4
 Network Protocols: HTTP 1.0/1.1, DHCP, IGMP v1/v2, TCP/IP, DNS,
 SNMP v2, PPPoE and NTP
 Streaming Media Protocols: RTP/RTCP/RTSP/SDP

NETWORK PROTOCOLS

HTTP 1.0/1.1, DHCP, NTP1.1 and IGMPV1/V2.,
 Supports IPv4

ACCESSORIES

IPSTB Box: 1
 Audio/Video line: 1 suit
 Net line: 1
 Power Supply: 1
 User Instruction: 1
 Remote Control: 1
 Batteries: 1 pair

TECHNICAL SPECIFICATIONS

Audio: MP3, AAC
 Video: MPEG-4 ASP, SP, 4:3 and 16:9-aspect ratio
 NTSC/PAL TV signal, 720 x 480 or 720 x 576 SD output
 Sample Rate: 32, 44.1, 48, 88.2 and 96 KHz
 Picture formats: GIF and JPEG
 OSD: 256 colors, 16 level alpha blending

SYSTEM MAINTENANCE

Upgrade: Manual/Automatic application software upgrade
 System Configuration: Manual/Automatic configuration

PICTURE FORMAT

Static pictures: JPEG, BMP, PNG
 Animated picture: GIF

INTERFACES

Input Interface: RJ45
 Output Interfaces: RCA, S-Video
 Network Interface: 1x10/100M Base-T
 IR Interface: NEC

OSD

Color: 32-bit true color
 Alpha blending: 256 levels

THIRD PARTY SOFTWARE SUPPORTED

Browser: Ant or iPanel
 Games: JavaScript games

PICTURE FORMAT

Static pictures: JPEG, BMP, PNG
 Animated picture: GIF

INTERFACES

Input Interface: RJ45
 Output Interfaces: RCA S-Video, SCART, and S/P DIF
 Network Interface: 1x10/100M Base-T
 IR Interface: NEC/RC5

OSD

Color: 32-bit true color
 Alpha blending: 256 levels

THIRD PARTY SOFTWARE SUPPORTED

Browser: Ant or iPanel
 Middleware: International leading middleware
 Games: JavaScript games

SYSTEM MAINTENANCE

Upgrade: Manual/Automatic application software upgrade
 System Configuration: Manual/Automatic configuration