

NETGEM IPTV SOLUTION

Hybrid STB and MediaCenter



OPERATOR NEEDS

- To Integrate diverse sources of content within a single STB
- Enrich the product offering and lower the attrition rate
- To provide extra services without increasing CAPEX



NETGEM STB AND MEDIACENTER SOLUTION

The N8000 Series Netbox is delivered with Netgem's award winning IPTV middleware, Netgem TV. The STB comprises a double tuner, hard disk drive, UPnP Media Center HD and a Home Network connectivity such as wifi 802.11n.

The N8000 Series enriches the broadcast TV experience with the power of the internet, blending seamlessly content and services from broadcast channels, IPTV platforms, Web sites and home network devices in a fast an fluid interface.

The N8000 Series is comprised of a core set of application and an advanced set mainly coming from Over The Top services such as:

CORE FEATURES

- HD Navigation system
- · Channel universe
- Rich TV Guide framework (EPG)
- Digital Video Recording (DVR)
- · Media Centre HD
- · Video On Demand (VOD)

ADVANCED FEATURES

- Internet live TV
- You Tube
- Online Streaming Music
- Local portal for customer
- Smartphone Control
- · Casual gaming

VALUE PROPOSITION

HYBRID RECEPTION

- Terrestrial DVB-T2
- Cable DVB-C, DVB-[T+C]
- Satellite DVB-S2
- Internet (Ethernet 100BaseT, Wifi n)

MEDIA CENTRE

- UPnP compatible
- Access to any USB device or computer
- Full codec compatibility

DIGITAL VIDEO RECORDING

- · Timeshift, pause live TV and rewind
- · Video Thumbnails for easy search
- · Instant & schedule recording

NETGEM TV SOFTWARE

- Unified Channel list
- Channel Universe concept
- Easy upgrade of new services



N8000 SERIES

TECHNICAL SPECIFICATIONS

HYBRID STB AND MEDIA CENTRE

SOFTWARE SYSTEM

Netgem TV

•OS: LINUX ·Client middleware: Netgem TV •Browser: Netgem Browser

•Web Protocols: HTML 4.01, JavaScript 1.5, CSS1&2, DOM1/2 Events IGMP, HTTP1.1, SSL 2&3, RTP/RTSP,SNMP, DHCP

•VOD & web TV: RTSP, Progressive download, Adaptative Streaming

(Apple HTTP, Microsoft Smooth Streaming)

·Server middleware: Netgem DMS with apache HTTP server

Media Centre

•Container: mpeg ts, mpeg ps, avi, asf, mkv,

mov. flv. dv

•Subtitles: srt, .sub, .ssa, .ass, .smi, .xml JPEG, BMP, GIF, TIFF, PNG •Photo:

·Video: see below •Audio: see below •Certification: UPnP and DLNA

HARDWARE SYSTEM

CORE SYSTEM

• Tuner:

2xDVB-C or 2xDVB-T2, or 2xDVB[T+C] · Reception: Sigma Design SD8655 / Broadcom BCM7413 · Processor:

• Frequency: 500MHz / 450MHz • Memory Flash: 128 MB / 32MB Memory RAM 256 MB

· Hard drive: 2"5 HDD variable size

AUDIO / VIDEO

· Resolution: Up to 1920x1080i at 50/60Hz · User Interface: 1920x1080i at 50/60Hz

· Video decoder: MPEG-4.10/H264, MPEG-2, SMPTE 421M · Audio decoder: MPEG-4 AAC, MPEG-1/2 layer I, II and III,

WMA9, WMAPro, Dolby Digital 5.1, Dolby Digital +

• Pass-through: Yes on S/PDIF

· Audio Downmix: Available on 2 stereo channels

Connectivity

· USB:

 Ethernet 1x Ethernet 10/100BaseT Full Duplex

• Wifi: 802.11n single or dual band

· Video output: 1x HDMI v1.3a

1x DIN out (CVBS, RGB, YPbPr, audio L,R)

· Audio output: 2x RCA

1x S/PDIF optical 2x USB 2.0 host device

SECURITY

Nagra Card-based/Cardless, Verimatrix · CAS: • VOD DRM: Verimatrix, PlayReady, WMDRM10 · Content protection: HDCP over HDMI, CGMS-A on analog DES, 3-DES, AES, DVB-CSA · Data encryption:

POWER

• Power supply: 12V 1.5A external

• Power consumption: 18W · Low Power: 0.6W

ACCESSORIES

• External power supply AC100-240 50/60Hz

• Remote Control Jazz RF/IR 28/33 keys

• HDMI cable length 1,5m

· Mini-din to SCART cable

Antenna cable

• Ethernet Cable 1,5m

Options

Processor : Sigma Design or Broadcom

☐ Wifi 802.11 b/g/n single band 1x1, or 802.11 a/b/g/n dual band 2x2

☐ HDD size: 160GB, 250GB, 320GB or 640GB

Smartcard ISO7816



