



OPERATOR NEEDS

- » Extend reach without network upgrades
- » Deploy a secondary low-costs Set Top Box with an advanced User Interface
- » Deploy economically scalable and upgradeable products



THE NETGEM INTERNET TV ADAPTOR

The N5000 series Netbox is designed to offer the best value for money for service operators wishing to seamlessly blend broadcast, unicast and web content into one, advanced TV experience.

Together with the NetgemTV award-winning middleware, N5000 is a media adapter that brings Internet to the TV. Included are an essential IP tuner and local storage for VOD movie rental. As a versatile platform, the N5000 serves a range of purposes:

- » As a Basic or Hybrid IPTV client, it is easy to integrate and very cost effective
- » As an Over The Top STB, it enables operators to reach outside their traditional footprint using progressive download and smooth streaming
- » As a secondary box, it provides exceptional user interface and opens access to remote PVR content;

The N5000 Series enables core services and features OTT applications:

CORE FEATURES

- » HD Navigation system
- » Channel universe
- » Rich TV Guide framework
- » Video On Demand (VOD)
- » PVR Ready features
- » Progressive download
- » Adaptive Streaming

OVER THE TOP SERVICES

- » Internet live TV
- » You Tube
- » Online Streaming Music
- » Smartphone Control
- » Casual gaming
- » Facebook

VALUE PROPOSITION

WEB TV

- » Local storage 4/8/16 GB
- » Adaptive streaming technologies
- » Over The Top services

OPTIMIZED DESIGN

- » Small form factor
- » Horizontal or Vertical

HIGH DEFINITION

- » Reception of MPEG2/H264 programs
- » User Interface in HD 720p
- » HDMI interface output

NETGEM TV SOFTWARE

- » Unique User Interface
- » Channel Universe concept
- » Easy upgrade of new services

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 & internet TV:	RTSP, Progressive download, Apple HTTP Streaming, Microsoft Smooth Streaming.
Server middleware:	Netgem DMS with apache HTTP server for STB provisioning



HARDWARE SYSTEM

CORE SYSTEM

Tuner:	0 (1 in option)
Reception:	DVB-C, DVB-T, DVB-T2 or DVB-T+C
Processor:	Sigma Design SMP8655
Frequency:	500MHz
Memory Flash:	128MB
Memory RAM:	256 MB
Flash Storage:	4G, 8G or 16G

AUDIO/VIDEO DECODING

Resolution:	Up to 1920x1080i at 50/60Hz
User Interface:	1280x720p at 50/60 Hz
Video decoder:	MPEG-4.10/H264, MPEG-2, SMPTE 421M, WMV9.
Audio decoder:	MPEG-4 AAC, MPEG-1/2 layer I, II and III, WMA9, WMAPro, Dolby Digital 5.1, Dolby Digital +
Pass-through:	Dolby-Digital+, DTS
Downmix:	Available on 2 stereo channels

CONNECTIVITY

Ethernet	1x Ethernet 10/100BaseT Full Duplex
Wifi:	Optional: 802.11n single band 1X1, or a/b/g/n dual band 2x2
Video output:	1x HDMI v1.3, Analog Video option DIN (CVBS, RGB)
Audio output:	Digital S/PDIF or Analog DIN Options
USB:	1x USB 2.0 host on the front, rear as option

SECURITY

VOD DRM:	Verimatrix, Playready
Content protection:	HDCP over HDMI,
Data encryption:	DES, 3-DES, AES, DVB-CSA

POWER

Power supply:	12V 1.6A external
Power consumption:	18W
Standby mode:	0.6W

ACCESSORIES

- » External power supply
- » Remote Control Jazz IR 28/33 keys - RF Option

OPTIONS

- Extra tuner for Hybrid TV solution
- 1 extra USB 2.0 on the rear
- Flash storage for Time-shifting and progressive download
- RF remote for ease of use
- Wifi n single or dual band
- Digital Audio optical out
- Analog Audio and Video out

