

## HYPER BOX - WIRELESS APPLICATION BOX

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### ADVANTAGES

- » Easy to use web interface can be used by anyone
- » Analog video input
- » Analog video output
- » Digital video input (HDMI 1.4, can be converted to DVI, VGA, HD-SDI, etc.)
- » Digital video output (HDMI 1.4, can be converted to DVI, VGA, HD-SDI, etc.)
- » Video conferencing, chat, P2P file sharing between individual Blackbox clients or in group rooms
- » Stream all available video inputs in an nCentric mesh network to selectable video outputs
- » Stream to shore
- » Automatic file sharing and syncing between Hyper Box storage pools

*HYPER BOX enables a multitude of additional applications on an offshore mesh network such as videotel, video recording, stream to shore, video conferencing, chat, file sharing, automatic file syncing, etc. All of these features are managed through a very powerful but easy-to-use web interface.*

### Videotel on steroids

Every Hyper Box has analog and digital video input connectors which allow nearly all industry-standard video feeds to be captured. When a video feed is being captured by a Hyper Box it is available to all other Hyper Boxes for playback, recording or output on a digital or analog connector. Video feeds can be streamed over VSAT to nCentric's video streaming datacenter for simultaneous internet playback worldwide.

### Communication features

Clients connected to a Hyper Box can set up a voice and video conferencing session privately (or in a group) through the easy to use web interface (no additional applications needed). P2P file sharing and chat is also available.

### Extensive file sharing and syncing

Every Hyper Box has 500 GB of high speed flash storage which can be accessed using all industry standard file sharing protocols (FTP, CIFS, NFS) or using the file manager in the web interface. Folders can be automatically synced between Hyper Boxes to allow seamless and instant file sharing between assets.

### Serial broadcast

Up to five serial connectors are available on the Hyper Box which can be used for in - or output. Serial datastreams can be shared in the network and output on a local serial connector.

## GENERAL

### Unit type

Indoor unit

### Storage

500 GB flash storage (expandable to 1000 GB)

### File sharing

FTP, NFS, CIFS

### Video conferencing

up to 4 simultaneous users

### Stream-to-shore

up to 2 simultaneous video streams

### Serial

4 x RS-232/422/485, 1 x RS-232/485, 1 x RS232

## VIDEO

### Encoding

H.264/MPEG-4 AVC

### Web viewer

up to 4 simultaneous video streams

### Analog input

- » CVBS Composite, Y/C S- Video
- » NTSC, PAL, and SECAM color demodulation
- » Interlaced or progressive
- » 704 x 480, 720 x 576
- » 30 FPS

### Analog output

- » CVBS Composite, Y/C S- Video
- » ITU-R BT.656 NTSC
- » 704 x 480, 720 x 576

### Digital input and output

- » HDMI 1.4
- » 1080p@30Hz, 1080p@25Hz
- » 1080i@60Hz, 1080i@50Hz, 1080i@30Hz
- » 720p@60Hz, 720p@50Hz, 720p@30Hz

## ANTENNA

### Internal WiFi antenna

- » **Frequency** 2.4 - 2.49 GHz and 5.75 - 5.85 GHz
- » **Gain** 8.0 dBi at 5.8 GHz; 6.0 dBi at 2.4 GHz
- » **Polarization** linear vertical

## NETWORKING

### Multicast (emulated)

Support for SNMP, ICMP, HTTP, ARP, TCP, UDP, Telenet, TFTP

DHCP Server / Relay and DHCP Client

DNS Relay / Proxy

NAT

## SECURITY

Wi-Fi Protected Access (WPA-PSK, WPA-EAP, WPA2)

OpenVPN tunneling on all external communication

## INTERFACES

### Ethernet

three GbE RJ45, one with 802.3at PoE output

### Console

six sub-D9 ports

### Analog video

two BNC input, two BNC output

### Digital video

one HDMI micro-D input, one HDMI micro-D output

### USB 2.0

one standard type-A host port, one micro-B OTG port

### RS-232/422/485

8 position DIP switch

### Power

IEC 60320-1 C14 inlet

## PHYSICAL AND ELECTRICAL

### Size

8.66 in (220 mm) x 4.33 in (110 mm) x 2.36 in (60 mm)

### Weight

2.65 lbs (1.2 kg)

### Typical power consumption

60 Watt

### Power supply

85 - 265 VAC (47 - 440 Hz)

## ENVIRONMENTAL

### Operating temperature

32F (0°C) to 113F (45°C)

### Storage temperature

32F (0°C) to 140F (60°C)

### Operating humidity

5 to 65% non-condensing

## STANDARDS COMPLIANCE

### Radio

FCC part 15

### EMC

FCC 47 CFR part 15

### Safety

EN60950-1:2006+A11, UL/cUL60950-1, China Compulsory Certification (CCC) qualified (AEB36/70 only)

### RF safety

FCC OET Bulletin 65

CE mark

Specifications are subject to change ©nCentric Inc.

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