

HYPER BOX



WIRELESS APPLICATIONS BOX

- » Easy to use web interface can be used by anyone
- » Up to six serial ports (RS-232)
- » Analog video input
- » Analog video output
- » Digital video input (HDMI, can be converted to DVI)
- » Digital video output (HDMI, can be converted to DVI)
- » 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 video back to shore over VSAT
- » 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, serial broadcast, 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.

Conferencing and collaboration 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). Automatic file sharing and both public and private chat is also available.

Extensive file sharing and syncing

Every Hyper Box has 480 GB of high speed flash storage which can be accessed using an industry standard file sharing protocols (FTP, SFTP) 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 six serial connectors are available on the Hyper Box which can be used for either in - or output. Serial datastreams can be shared in the network and broadcasted on a local serial connector.

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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
6 x RS-232

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
- » 720p@50Hz, 720p@30Hz, 720p@25Hz **RECOMMENDED**

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

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