

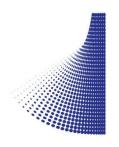


IBC 2021 Virtual Booth Tour

IBC 2021 — Virtual Booth Tour

- As you all know by now, IBC 2021 has been cancelled on very short notice because of COVID
- The next opportunity to meet in person will be ISE 2022 in Barcelona, 1-4 February 2022.
 We will have a stand there (3A500) pretty much like the IBC stand, just a bit smaller.
 ...provided the ISE is not cancelled too.
- The goal of these few slides is to provide a "virtual tour" of the IBC stand and a snapshot of the new products we are introducing.

IBC 2021 — The stand



(Without equipment and monitors installed)

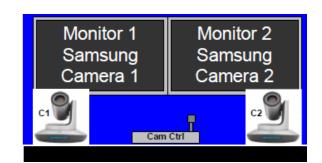


Cameras and Joystick Panel demo

PTZ | NDI CAMERA SYSTEM

CAMERA: AP-1080P-PTZ-20x (NDI|HX), full HD PTZ Camera with POE

- Compatible with most leading video conferencing software
- 1/2.8 inch, 5 mega pixel high quality CMOS sensor
- 20x Optical Zoom with 61 degree FOV
- HDMI 1.4, 3G-SDI, USB 3.0 & 2.0 and IP outputs
- Full HD video over IP supports H.264, H.265 encoding
- VISCA over IP/Serial, Pelco-P/D control protocols
- NDI|HX 5 and SRT protocols support for Control & Streaming (option)



JOYSTICK CONTROL: AP-PTZ-JCK (NDI) PTZ Camera Joystick Control Keyboard with POE

- Interfaces: IP, RS232, RS422 and RS485
- VISCA Serial, Pelco-P, Pelco-D, VISCA over IP, VISCA TCP, VISCA UDP, ONVIF, optional NDI
- · Serial daisy chain function. (Maximum 7 cameras)
- Up to 128 Presets can be set and recalled

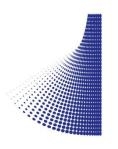




Cameras and Joystick Panel demo

- The <u>AP-1080P-PTZ-20x</u> Camera was introduced during the fall 2021
- The <u>AP-PTZ-JCK</u> Camera Joystick Control Keyboard introduction is at the IBC show
- NDI|HX 5 (and SRT) protocol support is available for both as an optional license
- Cameras & Joystick panels are shipping

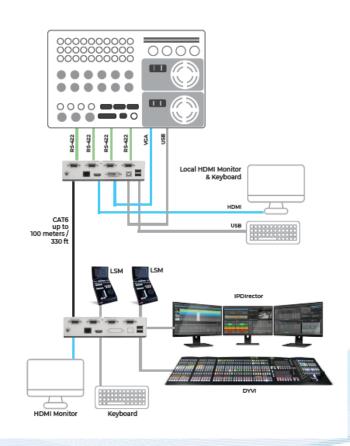
EVS Extender demo



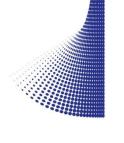
EVS EXTENDER / RECEIVER

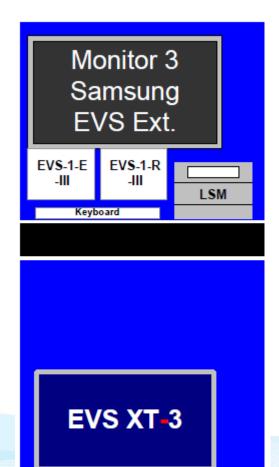
Extend control of the EVS XT-3 Video Production Server

- Extends EVS XT-3 VGA, Keyboard, RS-422 up to 330 feet with a single CAT6 cable - no delay
- Local HDMI (convert VGA to HDMI) and USB output
- VGA, USB, 4 x RS-422 signals are combined into a single CAT5/6 cable
- 4 x RS-422 can be used to connect to the LSM controller, the tablet, IPDirector and DYVI production switcher
- The CAT5/6 cables can be easily patched to freely assign the operator's position with the servers



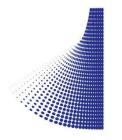
EVS Extender demo





- This is the 3rd generation of EVS server extenders
- Simplifies the integration of EVS servers & control for Studios and OB Vans.
- Developed and tested with the help of NEP in the USA
- Available as the <u>EVS-SET-3</u> bundle
- Currently shipping

SDM cards demo



intel

partner

SDM INTERFACES - BASED ON THE INTEL SDM - SMART DISPLAY MODULE PLATFORM

"In 2010, a global strategic alliance between NEC, Intel, and Microsoft created the Open Pluggable Specification (OPS) which became integral to NEC's large format displays and integration projectors. Today, the Intel® Smart Display Module (Intel® SDM) architecture represents a natural evolution to the OPS. Integrated into our new line-up of large format displays, we are widening our ability to deliver even greater performance, standardization, and ease of use."Erik Elbert, product manager at Sharp NEC Display Solutions Europe.

APANTAC'S SDM INTERFACES

12G SDI Receiver for SDM-S

- Supports 12G/6G/3G/HD-SDI input
- SDI loop out
- Outputs HDMI 2.0 RGB 4:4:4 @ 60Hz

SDVoE Receiver for SDM-S

- Supports HDMI 2.0/HDCP 2.2/1.4 UHD RGB/4:4:4 8 bit. 4:2:0 10 bit. 12 bit HDR
- · Supports up to 8 channels of audio, including PCM, Dolby True-HD, DTS-master audio
- Supports CEC pass-through and RS-232
- Extends signals up to 330 feet (100 meters)
- 10Gbps Ethernet Interface

Powerful & Sleek SDM Interfaces Integrated with your SDM Displays Superior flexibility extending and connecting **UHD signals to SDM Displays** INTEGRATED



Monitor Manufacturer's Supporting SDM - Smart Display Module

Sharp/NEC, Panasonic, IIYAMA, Vestel, AG Neovo, DynaScan and more...

NDI Receiver for SDM

- · High bandwidth NDI receiver for SDM-L
- Supports NDI v5
- Supports RS-232
- Supports Analog audio monitoring output
- · 3G SDI output
- 10/100/1000 Base Ethernet Interface

UHD HDBaseT Receiver for SDM-S and SDM-L

- · Supports HDMI 2.0/HDCP 2.2
- Extends HDMI signal (1080P@12 bit) up to 330 feet (100 meters)
- Extends HDMI (UHD@4:4:4) signals up to 330 feet (100 meters) with CAT6a/CAT7 cables
- · Supports LPCM, Dolby True HD, Dolby Digital audio.
- · Supports 3D pass-through, CEC pass-through, bi-directional RS-232, all frequencies IR control

Check these videos...







SDM cards demo

- In a nutshell: Different SDM cards are accepting various input formats: 12G SDI, SDVoE, NDI or even HDMI 2.0 over HDBaseT and convert them into an HDMI 2.0 signal usable by a monitor equipped with an Intel SDM slot
- This present several advantages over an "external converter box":
 - Compact and integrated inside the monitor
 - Power and control is provided by the monitor
 - No external HDMI cable nor power distribution

SDM cards demo

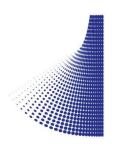
- Apantac is currently the sole manufacturer providing SDM cards for the Broadcast and the AV markets
- Availability:
 - SDM-SDI-HDTV-UHD: Available
 - <u>SDM-SDVoE-R</u>: Available
 - <u>SDM-NDI-R</u>: Contact Apantac
 - SDM-HDBT-R-UHD: Available

Some of these SDM cards are only available in small quantity for now

openGear cards demo

- We keep on adding more cards to the openGear chassis solutions. Recent additions include:
 - OG-US-5000: Scaler with HDMI 2.0 and 12G SDI inputs and outputs
 - OG-12G-DeMux-3G: 12G SDI to 4x 3G SDI output (Quad link) in 2SI or Square Division or down converted 3G SDI output
 - OG-3G-MUX-12G: 4x 3G SDI input (Quad link), 2SI or Square Division to 12G SDI
 - OG-KVM-IP-Tx: The standalone KVM-IP-Tx-PL openGear version with IP over Copper or Fiber

openGear cards demo



APANTAC PRODUCTS FOR THE



PLATFORM

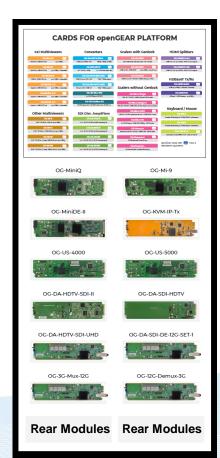
The Ross Video openGear® concept allows modular equipment from various manufacturers to share a common 2 RU chassis and a common Dashboard control interface, saving both rack space & money

Apantac has a range of about 40 cards for the openGear solution including:

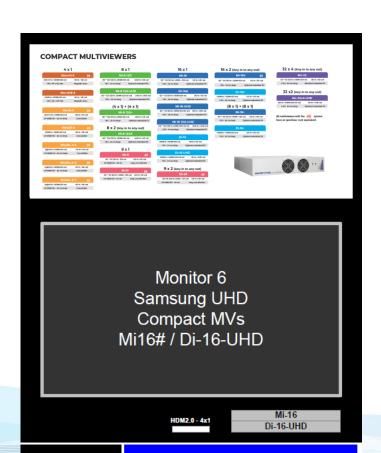
- Multiviewers with SDI and HDMI/DVI inputs. e.g OG-Mi-9, OG-Mi-16#, OG-MiniDE-II, etc.
- Scalers and converters with a mix of SDI and AV I/Os. e.g OG-US-4000, OG-DA-HDTV-SDI-II, etc.
- DAs and HDBaseT HDMI extenders e.g. OG-DA-4HD-II, OG-HDBT-EAPx & OG-HDBT-Rx, etc.



- The openGear demo include:
 - One Ultrawide Monitor with Dashboard on the left and a selection of 3 cards outputs on the right
 - A wall on the narrow end of the stand with a sign and a card sampling facing the Ross stand



Compact multiviewers demo



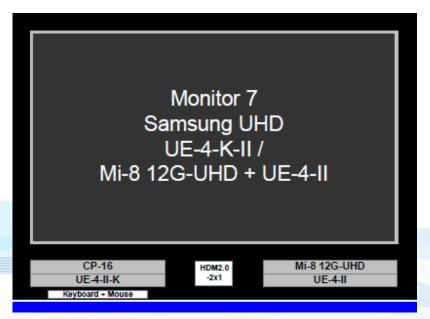
- One monitor on the stand was dedicated for showing two multiviewers from our compact series
- One 16x2 Mi-16# HD multiviewer with SDI inputs up to 3G
- One 16x1 <u>Di-16-UHD</u>
 multiviewer with UHD
 outputs & HDMI 1.4 inputs

UHD compact multiviewers demo

Two demos on one monitor:

AV MULTIVIEWERS

- <u>UE-4-II-K</u>
- <u>Mi-8 12G-SDI</u> + <u>UE-4-II</u> cascade



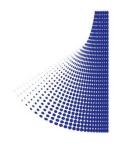




UHD compact multiviewers demo

- The Mi-18 + UE-4-II cascade implements a hybrid 12x1 UHD multiviewer with 8x 12G SDI and 4x HDMI 2.0 inputs. This is the first time such a hybrid configuration is shown
- These UHD multiviewers (UE-x-II-x models with or without built-in <u>KVM capability</u>) are a perfect fit for medical or high-end control applications
- The UE-4/8-II-K are also perfect for computer control positions in the Broadcast field when space is tight – E.g., an OB Van engineer seat

KVM over IP demo



 The latest addition to the KVM over IP solution, planned to be demoed at IBC is the "free flow" Rx license allowing to control up to four consoles from a single seat (up to four displays, one keyboard and one mouse)



KVM over IP demo

- Our KVM over IP matrix solution is more and more successful for Studios and OB Vans
- Read for instance the <u>Press Release</u> about the latest Ü10 UHD Studio Berlin OB Van
- Get details from our <u>KVM over IP web page</u>

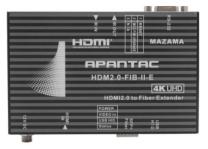


New small products

 DA-SDI-DP: Standalone 12G SDI to Display Port 1.2 SST.
 Very cost effective - Available



- HDMI 2.0 fiber extenders Available
 - HDM2.0-FIB-II: Up to 300 m over a multi-mode fiber,
 10Km over a single mode fiber. Resolution up to 4K
 - HDM2.0-FIB-II-HID: Same as above but extends also HID (USB Keyboard and Mouse)

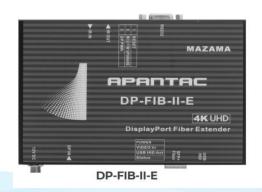


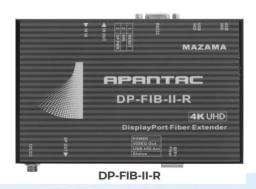


HDM2.0-FIB-II-R

New small products – Cont.

- DP 1.2 fiber extenders.
 - DP-FIB-II: Up to 300 m over a multi-mode fiber,
 10Km over a single mode fiber. Resolution up to 4K
 - <u>DP-FIB-II-HID</u>: Same as above but extends also HID (USB Keyboard and Mouse)





Availability: Contact Apantac