

WyreStorm Launches "Pinnacle" NetworkHD 600 Series

Written by Marco Attard
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WyreStorm delivers "lossless" 4K/60 video with HDR over 10GbE SDVoE to both residential and commercial customers with the flagship NetworkHD AV over IP 600 series.



Powering the 600 series is the standardised SDVoE hardware/software platform. The technology provides scalable delivery of "zero" latency switching of 4K/60Hz and HDR using RGB or YUV, together with audio, control, scaling, processing, encoding and encryption, all over 100Gb IP network. 4K video support reaches up to 4096x2160 60Hz at 4:4:4 8bit or 4:2:2 12bit HDR-10 over both HDMI and DisplayPort. Dolby Vision support should be added by the end of the year.

600 series encoders and decoders are fully HDCP 2.2 compliant, and feature auto-switch or software selectable input ports, with EDID capture and assign. Also included are Plethora Engine video scaling, re-timing and colour space conversion, in addition to powerful routing enabling stream breakaway for video, as well as audio and control.

Multichannel audio support up to Dolby Atmos and DTS:X is included, together with true breakaway audio (Dolby/DTS high definition codecs) in any zone with no concurrent multichannel and stereo issues. HDMI audio is supported up to any known format (Genlock). Audio embedding and de-embedding comes on encoder and decoder with DAC/ADC functionality, 8-channel PCM audio downmix and independent audio distribution via analog ports.

Integrated 1GbE passthrough provides control, with bidirectional fully routable RS232 UART and bidirectional RS-232 interface with API/driver. IR input on encoders and decoders is fully routable, with IR output generation and IR input forwarding to the API set to be supported in a Q2/Q3 2018 firmware update.

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The 600 series uses the same NHD-000-CTL controller, shares the same universal API and software environment, the same network switch setup and the same suite of WyreStorm-supplied 3rd party drivers. It is available now, with a dedicated NHD-000-RACK 7U 8-slot rack mount to follow on May 2018.

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