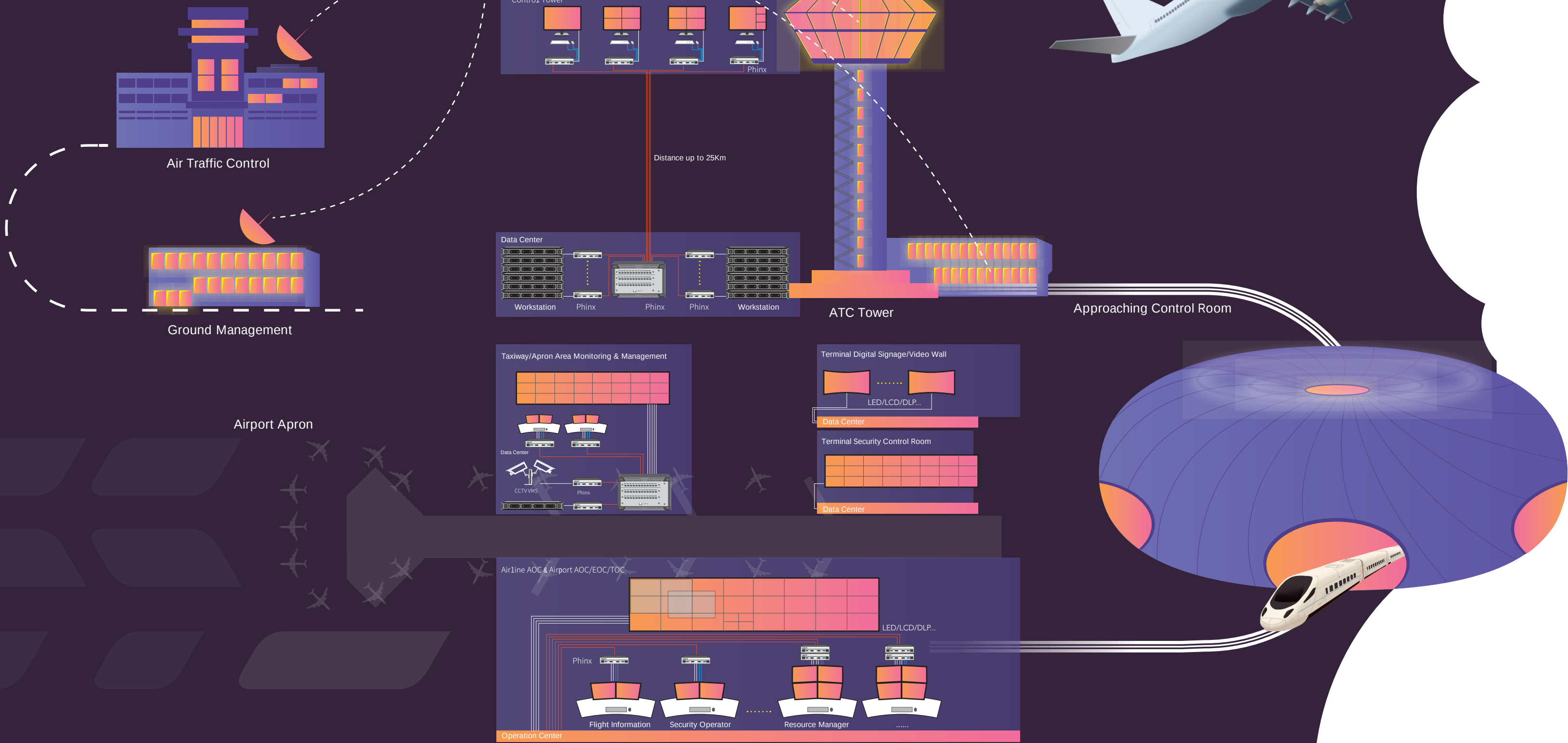


Distributed & Visualized Fiber KVM Collaboration System

Phinx Applications in Air Traffic Control





Various Applications in Air Traffic Control and Airport Management

Stability and safety are most important things for aviation. It's required to access accurate and real-time Navigation Info, Weather Info, Aviation Info and Air Traffic Control Info etc for every flight. Every ATC operator need to process amount of informations to safeguard the flight.

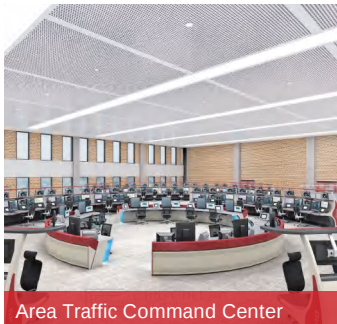
Phinx Fiber KVM Solutions provide a all-in-one collaborative and unified platform among ATC, AOC, Approching Control Center, Airport Security Control Room etc, to integrate all the workstations signal with different type and be accessed, controlled and displayed on different control centers, which increase the command efficiency for air traffic and airport management.



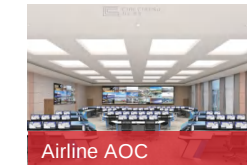
Air Traffic Control Tower



Approaching Control Center



Area Traffic Command Center



Airline AOC



Airport AOC



Airport TOC



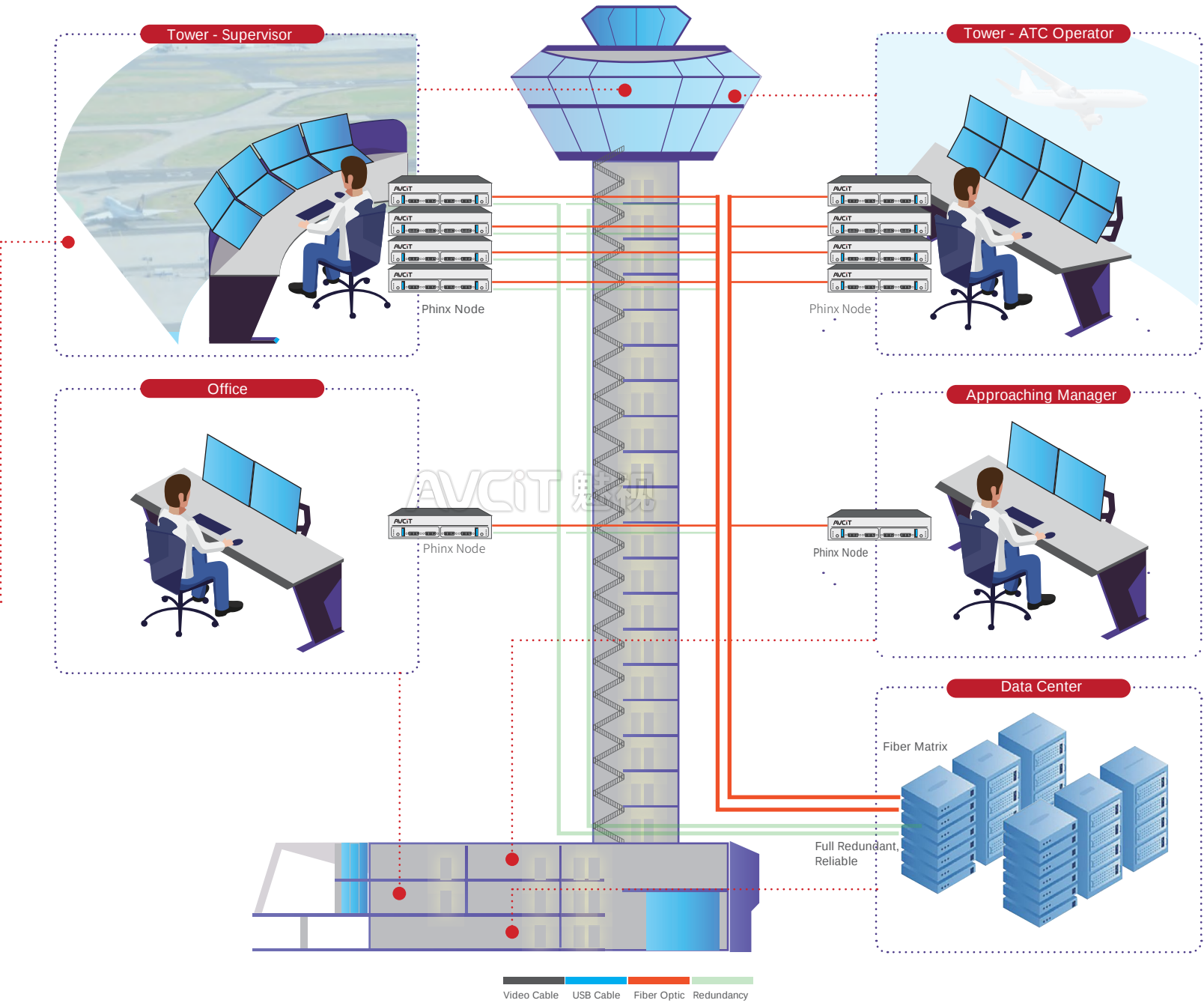
Apron Control Center



Terminal Digital Signage



Airport Security Center



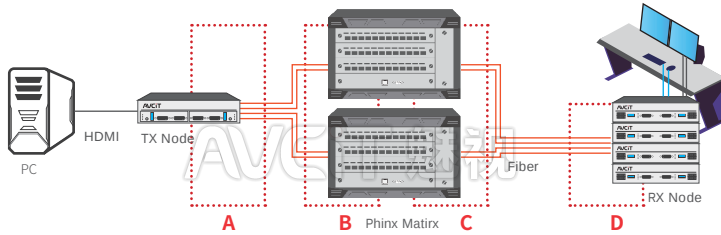
» Storing Workstations into Data Center

In Airport Control Tower, operators have to highly concentrate their attention on mission critical. Therefore, it's very important to provide them with a comfortable, quiet and cooling work environment. However, the heat and noise generated by computers in limited space of control tower, and the computer maintenance works, will create many undesired disturbance. AVCIT's Phinx Fiber KVM system allow to separate computers from operator console desk and store them into centralized data center, where is well-cooling, safe and easier to manage.

The signal of keyboard, video and mouse could be extended from data center to operator console, and allow operator to remotely access and control computers on multiple monitors by one keyboard & mouse. With leading image processing technology, Phinx System ensure the image quality and latency after long distance transmission, and makes operator feel like operating the workstation locally.

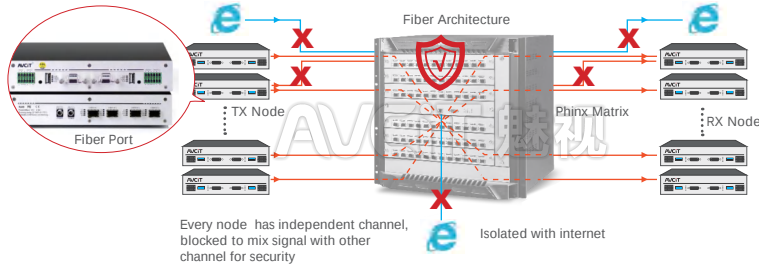
» High Stability & Full Redundancy

Benefit from preventive strategies and nanosecond monitoring, Phinx Fiber KVM Matrix system can realize 365 x 24 non-stop & redundancy KVM system, in Airport Control Center, Tower, AOC, EOC, TOC and other KVM systems, which is with no black screen splash, no pause or noise could be detected by user, even in the case of failure of an point. For example, any point of A, B, C or D is failure will not affect the system running.



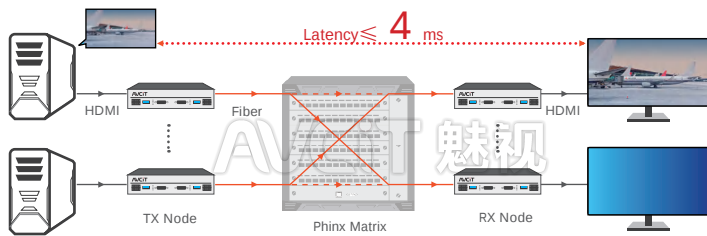
» Secure Data Transmission

Solution is based on FPGA processing technology and transmit data over fiber with abundant bandwidth for each channel. The whole system is isolated with internet and not available to access internet due to different protocol to avoid the Virus, Hacker attack etc.



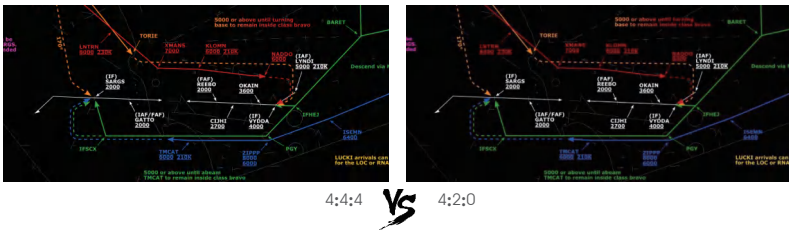
» Extremely Low latency

In order to minimize the fatigue and maxmum the efficiency of operators, Phinx Fiber KVM Matrix system achieves a point-to-point latency up to 0.004s, fixed the inaccurate mouse pointing and mouse drifting due to latency; with a great user experience, which is same to the local computer mouse



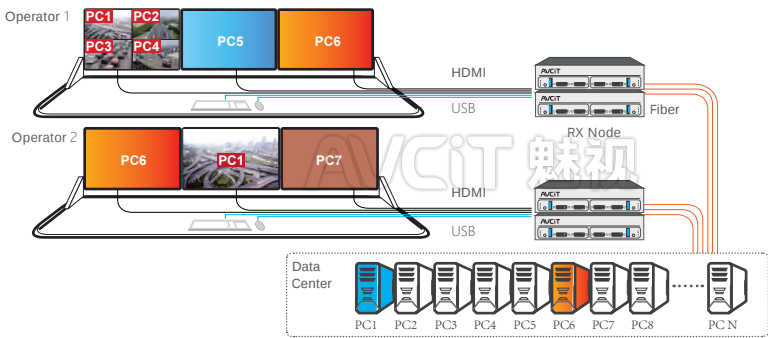
» FPGA structure with 4:4:4 chroma

Large video wall system is AOC 's critical visual center to display different images from different workstations by HDMI, DVI, RTSP steaming or other formats, with high image quality requirement. Phinx System desinged by FPGA structure with leading image processing technology, ensure the uncompressed image transmission over 12 G bandwidth fiber in 4:4:4 chroma, without frame loss, any mosaic.



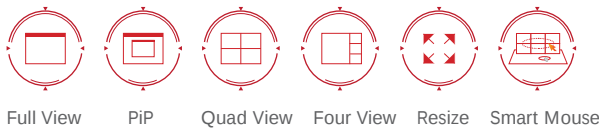
» Simplify your workspace by smart mouse

ATC Operator is required to access multiple workstations for daily works, including Radar, Flight Information, CCTV etc. Phinx System allows to access and control multiple workstations on multiple monitors by single set keyboard & mouse at same time, which will decrease the moniotr and K & M quantity but inscrease operator working efficiency. Operator could also share his current monitor content to large video wall or colleague's monitor by PUSH feature for easier collaboration.



» Dynamic KVM

Phinx system enables operator to access and control up to 4 workstations on single monitor simultaneously by flexible multiview layout, such as Quad View, Picture-in-Picture, Four view etc. Operator with dual monitors could use one for daily work, another one for monitoring preview.



» Visualized Collaboration by GET and PUSH

Phinx system is flexible to equip operator with single or multiple monitors to manage remote workstations installed at data center, monitors group could be M*N. Operator could set OSD hotkey for GET/PUSH feature and is able get access multiple output of on relative monitors simultaneously. To increase collaboration efficiency, operator could push their monit's content to video wall or other operator's monitor and make voice call.



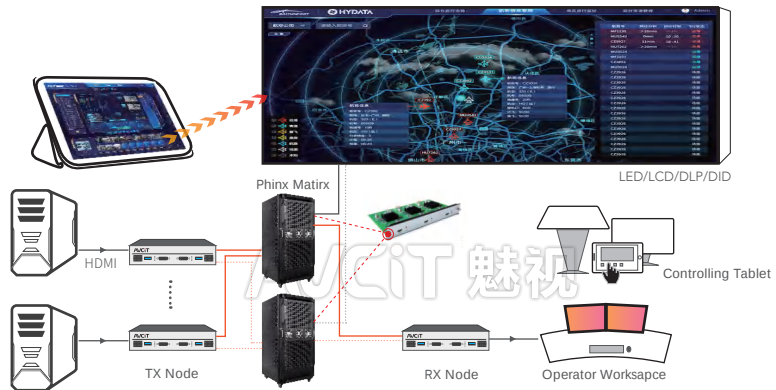
» Permission Assignment

Airport Control Room are equipped with different operator console for different tasks management. Administrator could assign the workstation access permission for every operator, who could login account at any Workspace Console to control their permssioned workstations.



» Visualized Video Wall Control & Management

Phinx System is built-in video wall control feature for DLP, LED or LCD screens, with visualized management software, which is able to preview the source and content displayed on video wall in real time. Controlling software could be runned on Windows, iOS or B/S device. It's required to insert a video wall control module into Phinx Matrix only, no additional video wall controller required.



» Safeguard for important flight

In order to safeguard some important flights as best as possible, it's required higher permission for ATC Operator. Phinx System allows supervisor configure to configure the workstation exclusive permission for the operator. Four permissions could be assigned according to operator level, including Exclusive, Share, View Only and Private.



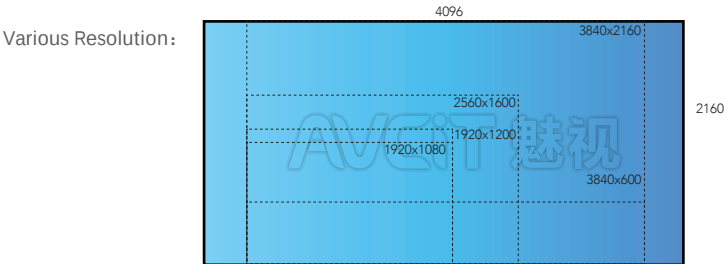
» Operation & Maintenance Platform

Airport Control Room is high critical environment and should be equipped with professional maintenance platform. AVCiT provide the Visualized Operation & Maintenance Platform for Phinx Fiber KVM System, by which all the critical devices and TX/RX node, logs, failure information and abnormal alert etc, could be monitored by visual chart and the failure information will be PoP in real time.

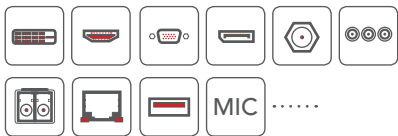


» Available for multiple signal format and various resolution

Resolution up to 3840x2160@60Hz (compatible with 4960x2160p@60Hz), 3840x600@60Hz, 1920x1200@60Hz, 1080p@60Hz and downward compatibility. Available for different signal format, including HDMI, VAA, DVI, DP, AV and SDI etc.



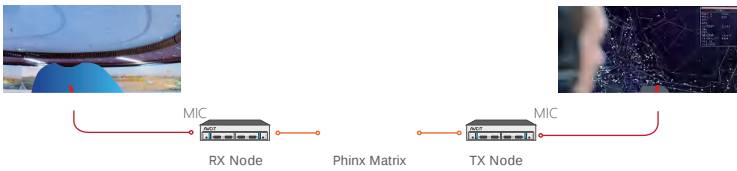
Different Interface Port:



AVCiT 魅视

» Bidirectional Audio Transmission and Internal Call

Operator could get the audio simultaneously when accessing the workstation image by OSD. Workstation's audio could also be transmitted to Amplifier by node's phoenix audio port. For better collaboration, Phinx System allow operators to make voice call with each other by OSD.



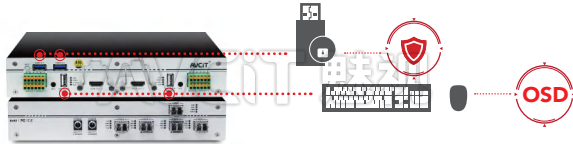
» Various Enclosure with Optional Interface Port

Phinx System is with various size of enclosure according project requirement, including 36, 72, 144, 288 and 576. Every fiber I/O could be connected with TX node or RX node, which will be detected automatically. Optional video interface port for TX, RX includes HDMI, DVI, VGA etc.



» Tranparent USB

Sometimes AOC Operators need to transmit USB disk or U-Key data from operator desk to the workstation mounted at data center, Phinx System allows operator access and control the relative workstation by OSD and just insert USB disk at monitor's RX Node to transmit data.



PhinxTM

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