Milestone Certified Solution

NEXCOM MVS5603-C8SK Series

Date Certified: 05.10.2018

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About NEXCOM

NEXCOM is a well-known industrial computer hardware manufacturer headquartered in Taiwan. We are committed to being your trustworthy partner in building the intelligent solutions. To surpass customers' expectations, NEXCOM makes the difference by utilizing its decades of industrial computing experience, a highly talented R&D team, and by providing exceptional levels of customer service. With these core strengths, NEXCOM has enabled its customers to win key projects in a diverse range of industries.

Video surveillance is a critical aspect in vehicles for protecting driver and passenger safety, as well as public safety. A solid video surveillance system must be comprehensive in the areas of video capture, transmission, display, storage and management. By implementing GPS and mobile network technology, video surveillance systems can empower remote video monitoring in real-time. In addition, with advanced video analytics algorithms, video surveillance systems can provide Automatic License Plate Recognition (ALPR), Longstop Object Detection (LOD) and Driver Behavior Monitoring (DBM) to avoid traffic accidents, and Human Facial Recognition (HFR) to assist crime prevention.

Equipped with advanced computing, wireless communication, and global navigation satellite system (GNSS), smart buses can be monitored and coordinated meticulously to ensure bus services are performing within standards. In addition, real-time live surveillance and video analytics of bus fleets can be implemented to respond to emergency events and ensure security and safety of drivers and passengers. Furthermore, smart buses can monitor and collect data such as driving behavior and passenger flows, giving bus operators insights into its fleet operation and allowing them to make service improvements or timetable rearrangements when necessary.

About Milestone Systems

Milestone Systems is a global leader in providing open platform IP video surveillance software. Milestone has provided easy-to-use, powerful video management software in more than 150,000 installations, worldwide.

Milestone XProtect® provides open architecture products that are compatible with more IP cameras, encoders, and digital video recorders than any other manufacturer. Because Milestone provides an open platform, you can integrate today's best business solutions and expand what's possible with future innovations. Visit www.milestonesys.com for more.

Introduction:

This report highlights the performance results of certification tests performed on the NEXCOM MVS 5603 Mobile NVR series. They were each used as the storage location for live and archive video databases during all respective certification tests. Certification of MVS 5603-3C8SK and MVS 5603-7C8SK ensures that any surveillance system built using these products in combination with the Milestone XProtect components will be able to record and archive an amount of video consistent with the recommendations of the Milestone Server and Storage Calculator.

Certified Products

- MVS5603-3C8SK and MVS5603-7C8SK
- Milestone XProtect Professional + 2018 R2
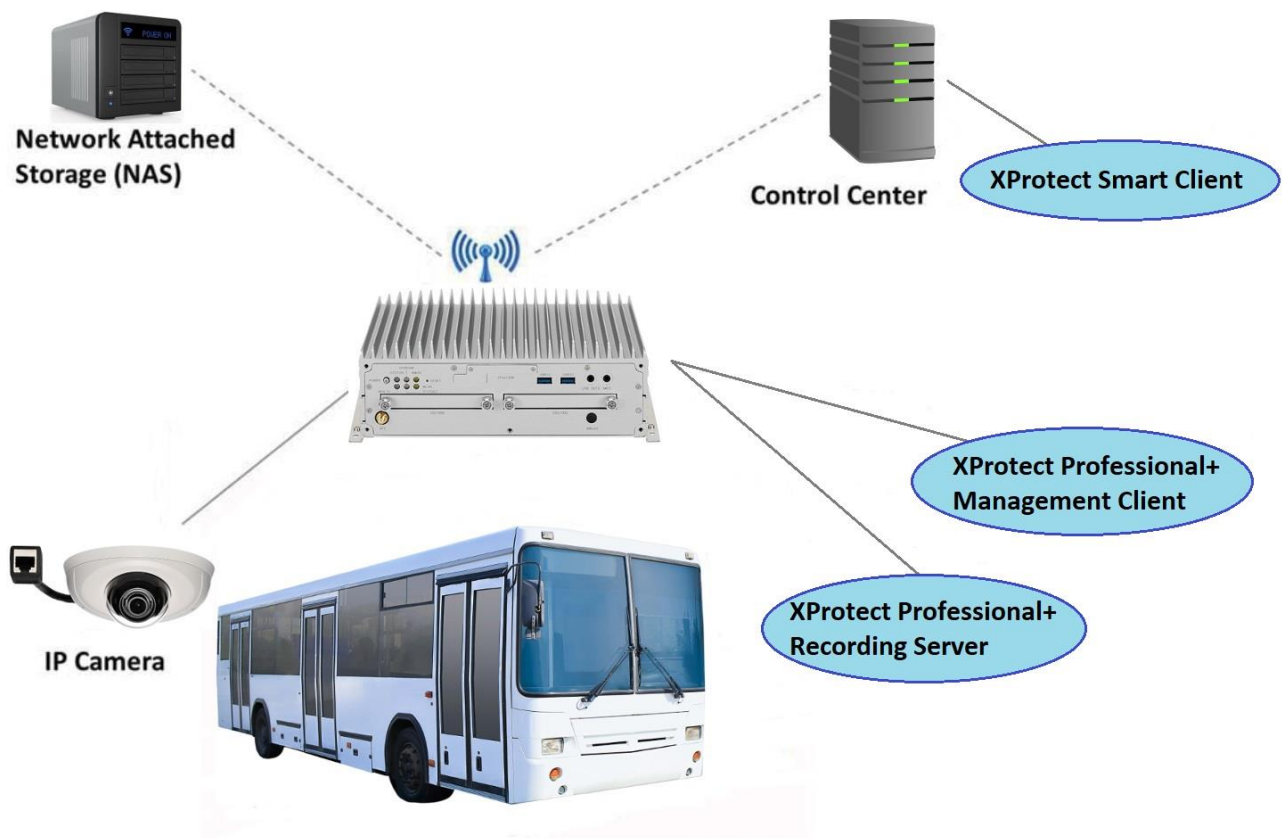   - Listed Product solutions are certified for use with the entire XProtect product line.

Performance of the solution may vary if different XProtect products and/or system components not listed in the tests details are included.

System Configuration

Model	MVS5603-3C8SK	MVS5603-7C8SK
CPU	Intel Core i3-6100U @ 2.30GHz	Intel Core i7-6600U @ 2.60GHz
Memory	16GB DDR3L Dual Channel	16GB DDR3L Dual Channel
Operating System	Windows 10 Pro 64Bit 1709	Windows 10 Pro 64Bit 1709
Software	Milestone XProtect Professional + 2018 R2	Milestone XProtect Professional + 2018 R2
Operating System Drive	64GB CFast Card	64GB CFast Card
Storeage Drive	2x 1TB WD Surveillance Drive (RAID 1)	2x 1TB WD Surveillance Drive (RAID 1)
Network Controller	2x Intel i210 Gigabit Ethernet	2x Intel i210 Gigabit Ethernet
PoE Ports	8x PoE ports switch	8x PoE ports switch
Power	9 - 36 DC In	9 - 36 DC In

Solution Architecture:

Performance Results

Scenario	NVR Model	Surveillance Scenario	CPU Usage%	Stream Size	Networking Bandwidth
1	MVS5603-3C8SK Ruggedized Intel Core i3 8 Ports POE	25 Cameras, 720p 25FPS, Recording Only	23	40.0 Mbps	102 mbps
2	MVS5603-7C8SK Ruggedized Intel Core i7 8 Ports POE	40 Cameras, 720p 25FPS, Recording Only	47	64.0 Mbps	180 mbps
3	MVS5603-3C8SK Ruggedized Intel Core i3 8 Ports POE	25 Cameras, 1080p 30FPS, Recording Only	28	120.0 Mbps	130 mbps
4	MVS5603-7C8SK Ruggedized Intel Core i7 8 Ports POE	40 Cameras, 1080p 30FPS, Recording Only	35	192.0 Mbps	180 mbps

Conclusion

NEXCOM is proud to announce its MVS 5603-C8SK 8-channel PoE (Power over Ethernet) mobile network video recorder (NVR) is now a certified solution for Milestone. To achieve certification status, the mobile NVR was verified to being interoperable and optimized for Milestone's XProtect VMS (video management software).

Designed for operational efficiency of public transportation and emergency services, the modular design of MVS 5603-C8SK allows for flexible I/O expansion. Powered by Intel® Core™ i3 or i7 processor and equipped with CAN 2.0B, the mobile NVR provides an integral solution incorporating high computing power, effortless configuration, wireless communication, and GPS tracking (with optional Dead Reckoning support) to record locations, high quality videos, driving patterns and diagnostics for a variety of vehicles, achieving better measures for safety and management. Depending on various factors; such as processor, resolution, PoE switch and frames per second; Further, MVS 5603-C8SK meets MIL-STD-810G standard, allowing it to operate in harsh environments.

Optimized for Milestone XProtect VMS, MVS 5603-C8SK mobile NVR offers a wide array of solutions for public transport surveillance, which includes perimeter protection, scalability, on-board surveillance, infrastructure protection, passenger safety, centralization, video analytics and access control. For example, securing infrastructure increases the operational efficiency of a public transport network. MVS 5603-C8SK with Milestone XProtect VMS allow control centers to monitor remote installations and get notifications from them so they are quickly made aware of incidents and events at local sites.

Product Links