



EtherWAN & Plustek Awarded in-vehicle Surveillance Project in Germany

Overview

There is an increasing demand for mobile, field based surveillance systems especially on motor vehicle. These systems rely on Power over Ethernet technology to reduce installation costs and make data transmit to a central server very easy. KVS Bus company in Saarlouis Germany chooses EtherWAN and Plustek to provide a robust in-vehicle IP surveillance solution.

Technology

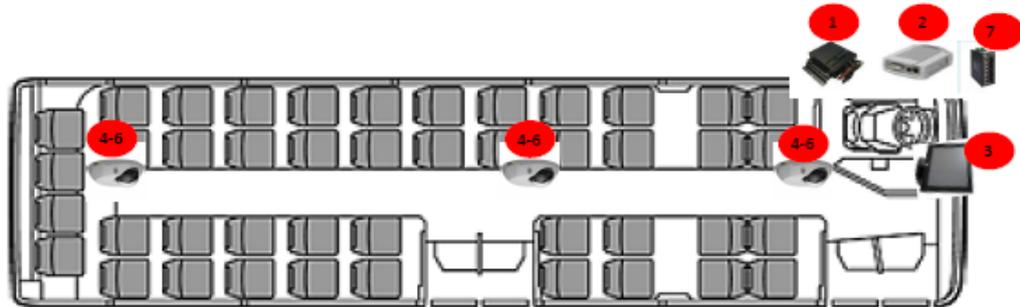
Mobile video surveillance is becoming more common, as more police departments, ambulance services, and transportation companies see the benefits it can bring. With PoE switch installed in a vehicle, it eliminates the need for an electrician to install an outlet near a powered device. PoE brings efficiency to Ethernet-based communications in mobility by providing power to the Cat-5 LAN cable.

Challenges

In-Vehicle surveillance solution developers always struggle to optimize system performance whilst solving potential over-heat and vibration issues. Simplified cabling structure in the bus environment making easy installation is also a priority. Reliability of the networking equipment inside the bus is the key factor to determine the overall IP surveillance solution efficiency. PoE networking switches available from off-the-shore are too fragile to be installed in such harsh environment. Only the ruggedized solution package could deliver to ultimately reduce the cost of maintenance.

Solutions

EtherWAN's hardened switch series, EX34080-00B, E-Mark certified, features PoE (IEEE 802.3af 15W or 30W on each) and optional web-smart feature with wide operating temperature range from -40°C to 75°C. To accommodate with the power input only available from the bus, EtherWAN also provides an E-Mark certified power supply converting from 12-36VDC to 48VDC defined in IEEE 802.3af standard. The robust design of the EX34080-00B makes the network connectivity tough to withstand the often-heavy vibrations generated by the bus. It is also capable of withstanding the temperature fluctuations inside the bus. Plustek's NVR 4200V is a mobile network video recorder specifically designed for transit applications. It is the ideal choice for mobile surveillance in all types of public and commercial vehicles such as fire engines, taxis, vans, buses, trains, trams, limousines and heavy goods vehicles. Along with the in-vehicle ruggedized PoE IP cameras from Axis Communications, the complete solution provides high reliability and availability to KVS Bus service in Saarlouis City.



1. Plustek NVR4200V AX + Plustek NP240
2. AXIS P7701 Video Encoder to cycle cameras live on a 12" LCD Display*
3. 12.1 LCD Delta Components Display
4. AXIS M3113 IP Cameras
7. EtherWAN EX34080-00B & DD-85-48 Power Converter

Bus Line 409 KVS Saarlouis with EtherWAN/Plustek/AXIS System Installation



Result

The 1st phase of field test was completed with very positive result. KVS is very happy with the outcome and are ready to move on with more installations. This project will involve with 88 buses installation in 2 years.



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Products from EtherWAN

EX34080-00B

E-Mark certified 8-port 10/100BASE-TX (4 ports with 802.3af PoE) Industrial Unmanaged PoE Ethernet Switch

DD-85-48

E-Mark certified 85W/1.78A 48VDC Industrial Power Supply