



# Seamless IP Migration for 500+ Bank Branches Using Existing Coaxial Cabling

**KBC Networks' eCopper™ & Managed PoE Switches Enable High-Definition Surveillance with Minimal Disruption**



APPLICATION

## Background

A major banking institution with 500+ branches set out to modernize its analog CCTV systems to comply with current IP standards. The goal was to transition to a high-definition, IP-based video surveillance solution, enhancing image quality, remote access and scalability. However, replacing the extensive legacy coaxial cabling would have incurred prohibitive costs, prolonged downtime, and operational disruptions across hundreds of locations.

## Challenge

The bank needed a cost-effective, scalable solution to adopt IP cameras without the logistical challenges and additional budgeting of re-cabling. Removing and replacing hundreds of miles of coaxial cable would not only increase project costs and timelines significantly, but also disrupt daily operations, delay the project rollout across hundreds of locations and conflict with the bank's sustainability initiatives.

This scenario reflects a widespread industry challenge: modernizing surveillance infrastructure while minimizing business impact and avoiding costly infrastructure updates.

## Solution

### eCopper - Effortless IP over Coax

KBC Networks' eCopper solution enabled the bank to reuse existing coaxial cable for IP video and Power over Ethernet (PoE). Each March Networks IP camera connected to a KBC eCopper transmitter via Ethernet (RJ45). The signal traveled over the existing coax to a centralized eCopper receiver, which supported up to 16 transmitters and delivered 802.3at PoE+ power to each camera. In addition, the included Power Management Software allowed operators to remotely monitor power status and control each individual port, enabling faster troubleshooting and improved system reliability.

### Managed PoE Switches – Reliable Network Integration

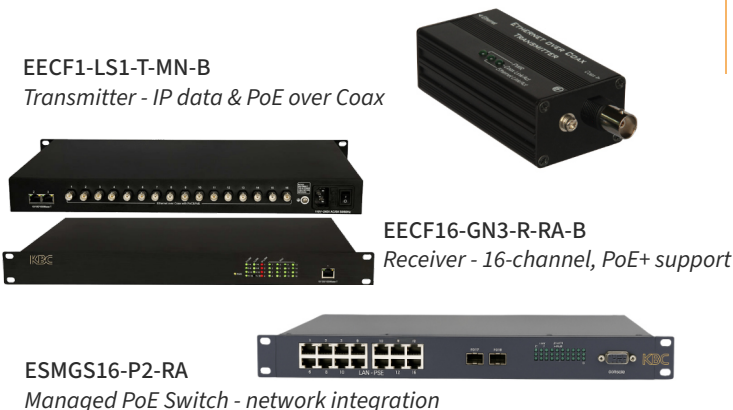
KBC's managed PoE switches were deployed at each branch to complete the solution, integrating reliable network switching, secure connectivity and centralized power management. This streamlined architecture reduced failure points and enabled simplified remote system administration.

## Outcome

KBC's eCopper solution enabled the successful deployment of 5,000+ high-definition IP cameras across 500+ branches nationwide, delivering significant benefits to the customer.

### Key Benefits:

- ✓ Substantial cost savings – No rewiring required
- ✓ Rapid deployment – Zero branch downtime
- ✓ Simplified infrastructure – Fewer failure points
- ✓ Power Management Software – Port Management & Monitoring
- ✓ IP Performance – Enhanced image quality & remote access
- ✓ Optimized rack space – Clean, scalable setup
- ✓ Sustainability – Aligned with green initiatives by cable reuse.



*"We upgraded to high-definition IP surveillance without disrupting service or suffering construction downtime. It was seamless, efficient, and far exceeded our expectations."  
— Branch Operations Manager, Major Banking Institution*

