

# Migration Solution

Meeting future demands

Info sheet

# RipEX

Companies have used SCADA systems for many years and for many different purposes like monitoring systems and maintaining their infrastructure in real time. Many are now finding these **SCADA systems are too old** to meet modern, mission critical requirements and have high maintenance demands; these networks are rapidly coming to the **end of their effective lives!**

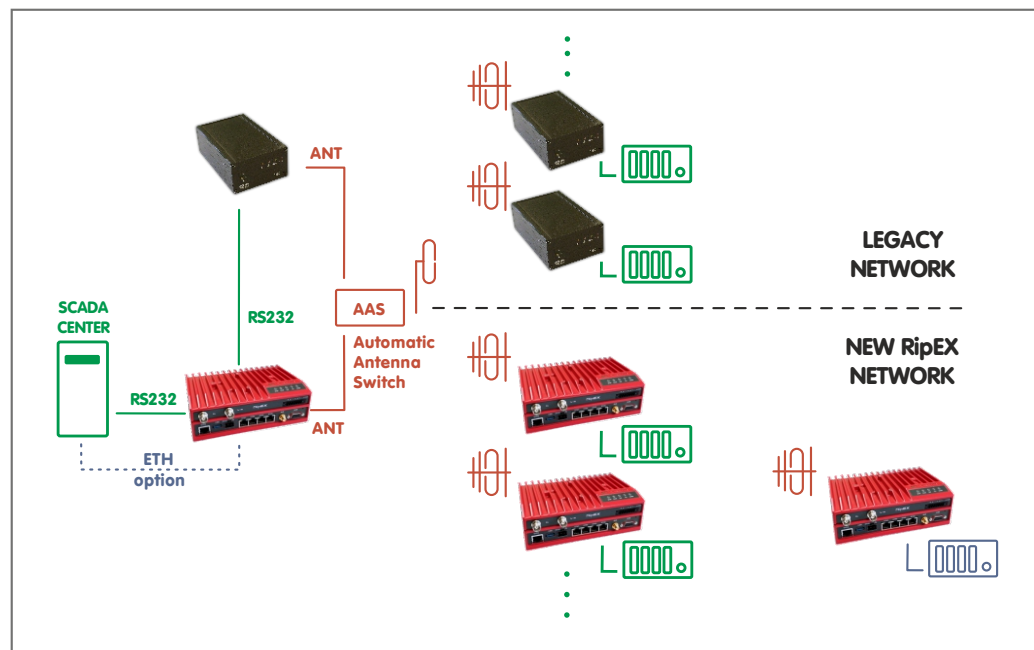
The optimal solution would be a **phased upgrade** to a modern, **future proofed** radio network using **staged funding** and **available manpower**. This would allow the scaled upgrade to be completed in a well-managed way with **no network outages** in the legacy network.

**RipEX** was designed to **handle just such a scenario**. Any RipEX unit can be used as a base station and routing tables are used to manage the traffic. Both of these factors enable migration **without** the need to buy expensive **temporary migration hardware**.

**The RACOM Migration Solution works equally well for any scenario; whether existing polling or report by exception networks are to be migrated or expanded.**

## Customer benefits

- Standard RipEX units used - no expensive temporary migration HW required
- Budget investment directed where needed
- No network outage during migration
- Migration as part of regular maintenance
- Gradual one by one replacement
- Pay as you grow!



RipEX2

- 1.7 Mbps / 200 kHz / 256QAM
- 6.25 - 300 kHz
- 4×ETH, 1×SFP, 2×COM, 1×USB



RipEX

- 166 kbps / 50 kHz / 16DEQAM
- 6.25 - 50 kHz
- 1× ETH, 2× COM, 1× USB

### Common features

- 0.1 - 10 watts, - 40 to +70 °
- Solar ready
- Wifi management
- Customized protocols
- Fast remote access
- IPsec

## RipEX networks

- Future proofed
- Exceptional Data throughput
- Optimized Radio protocols
- Unlimited Network design
- Backup routes
- Native IP environment
- 3 year warranty

### Old network limitations

- Slow data speed
- Obsolete products
- RS232 connections
- Low reliability
- High maintenance costs
- Older protocols
- Outdated security features

### New network demands

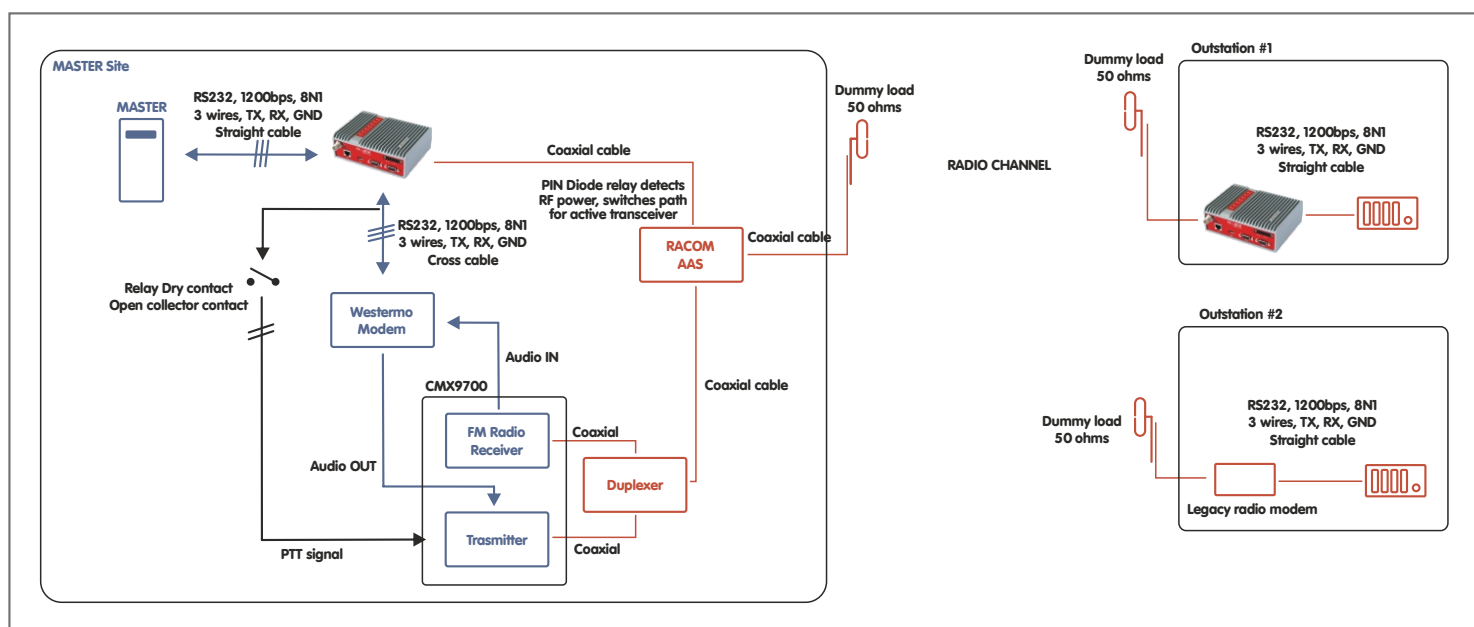
- High data throughput
- Next generation products
- RTU's with Ethernet
- 99.9% uptime
- Low maintenance costs
- Modern IP protocols
- Future-proof security features

## FEATURES

- Same frequency can be used for both networks
- AAS automatically manages antenna switching
- No changes to legacy network required
- RipEX routing table manages traffic for legacy and new network
- HW contact for 'Carrier On' legacy base station transmissions supported (not on RipEX2)
- Reduced traffic load on legacy network offers improved performance
- Simultaneous SCADA upgrade - Serial and Ethernet RTU's supported

## BENCH TEST

RACOM was invited by a large European utility company to prove the durability of the RACOM Migration Solution. Bench testing was a unique opportunity for RACOM to prove its suitability.



Equipment used in the legacy network included: Clear SCADA SW from Schneider Electric in the centre, Westernmo modem + RF datatech radio CMX 9700FD on base stations. There was RF datatech equipment on remotes: URT500 remote telemetry units and CMX9700FD radios with Westernmo modems. Medina communication protocol was used for SCADA.

## Conclusion

**RipEX Migration Solution passed all bench tests successfully at the first attempt!**

**It was confirmed the RipEX Migration Solution would allow a scaled upgrade to be completed over time in a well-managed way, with no network outages in the legacy network.**

RipEX is a best-in-class modem known for reliability, performance and quality, implementing all relevant state of the art concepts and is particularly suitable for systems requiring uninterrupted operation.