

# Product overview

The best performance in any environment

# RipEX

## Description

RipEX is an **industrial grade radio modem** platform, renowned for overall data throughput in any real time environment. All models have been **designed with attention to detail, performance and quality**. With **State of the art** concepts fully implemented, we rightly have the status of **market leaders** in our field.

The 1st generation was introduced to the market in 2011, is now **used in thousands of installations** and has developed the reputation of **'best-in-class'**.

The **2nd generation radio** was released in 2019, setting a new standard and providing **significant improvements in data speed, security features and interfaces**, with the possibility to add **expansion-cards for GPS, LTE- and IoT-capabilities**.



## RipEX networks

- Highest possible throughput
- Unlimited coverage
- Back up routes
- Security and reliability
- Customised protocols
- Migration Solution



Product details

## Applications

RipEX was developed for use within **mission critical SCADA applications** for the **Utilities** and **Oil & Gas industries**. However, such is the **versatility of RipEX**, it is also used in **Farming, Marine industries, Mining, Fleet management, Security/Surveillance** and the **Renewable Energy sector**.

It proved to be the only radio sufficiently **immune to outside interference** when used with remote cameras in **coverage of Tour de France**. It was even the radio of choice for **air to air** and **air to ground communications** during **test flights of the Airbus E-Fan aircraft**.

Operating in **over 100 countries**, RipEX truly is everywhere around us, **from the Poles to the Equator**, working seamlessly in the background **providing** us all with an **improved quality of life**.

## Typical Applications

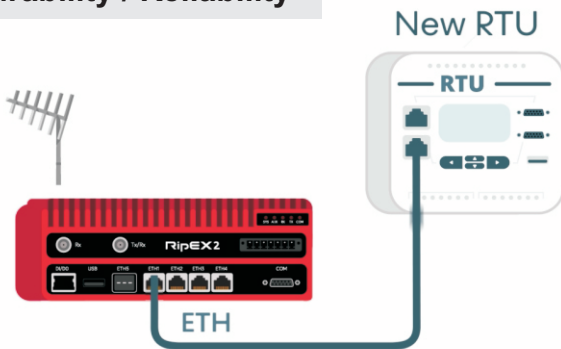
- Mission critical applications
- Utilities management
- Oil & Gas distribution
- Farming
- Marine Industries
- Mining
- Fleet Management
- Security/Surveillance
- Renewable Energy Sector



References

## Customer Benefits

### Durability / Reliability



The durability of RipEX products is calculated from number and type of repair performed compared to numbers of pieces produced. In 2017 the **MTBF** was **166 years** which is testament to the **quality of workmanship** in the product and **rigorous testing procedures** during manufacture.

### Security



Implemented security mechanisms maintain **network integrity** in line with the robust **modern demands** of **cyber security**. They offer advanced protection to block unwanted traffic and access using **Firewalls**, **Encrypted end to end tunneling**, **Data integrity control** and **Data origin authentication** among the many other leading security features employed.

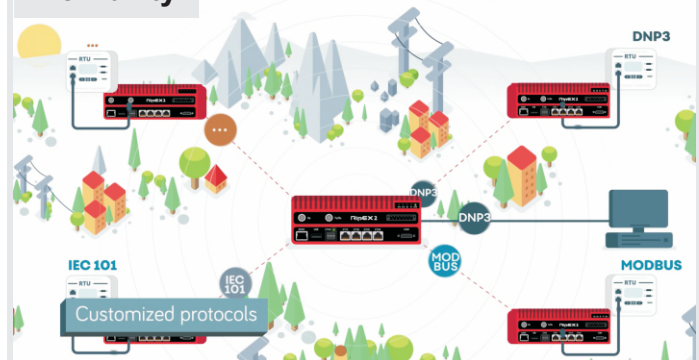
### Performance

RipEX is renowned for its ability to **work in challenging conditions**, offering the highest network throughput in any environment. Data throughput **from 167 kbps** on a 25KHz channel **up to 1Mbps** on a 200 KHz channel in real time is achievable; **unmatched in the industry**.

### Expansion / 5G ready

RipEX2 has an expansion board which **radically extends its usage**; **GPS** for location or precision timing and **cellular network connectivity** as examples. Huge amounts of data can be transferred over the cellular network with the **licensed narrowband** used for **critical data** in case of cellular network outage. The expansions would even enable **connectivity to 5G networks and IoT applications**, collecting and transmitting data from IoT-sensors in remote locations.

### Flexibility



Different modes of operation and different protocols allow **users to customize their network to match their exact needs**, supporting both legacy and the newest RTU's within the same network. This enables **unique solutions**, offering **optimal data throughput and stability** for any application.

### Management and diagnostics

Every part of the network can be **remotely monitored and analyzed** using **industry leading software**, in **real time** and with **save to file** analysis capability. **Alarms** can be set where appropriate with **reports** and notifications generated. These are features that engineers find **particularly intuitive** and useful within RipEX networks.

### Migration Solution

RipEX is the **perfect answer** for Migration solutions. **No changes to the legacy network** or additional hardware are required. The **migration** can be performed as **part of a standard maintenance** program and gradual **one by one replacements** can be made allowing you to **Pay as you Grow!**