

Water Management

PROVEN HYBRID SCADA COMMUNICATION FOR WATER INDUSTRY

Reliable drinking water supply and wastewater services are essential for the functioning of modern society. Their communication systems must operate continuously – often unnoticed, but always dependable. Water utilities face a unique combination of challenges: geographically dispersed facilities across large areas, ageing infrastructure, strict regulation and growing demands for security, efficiency and resilience.

PROVEN IN CRITICAL NETWORKS

- 30 years of experience in critical communications
- Deployed in scale in 130+ countries
- Wide integration options

MARKET LEADER

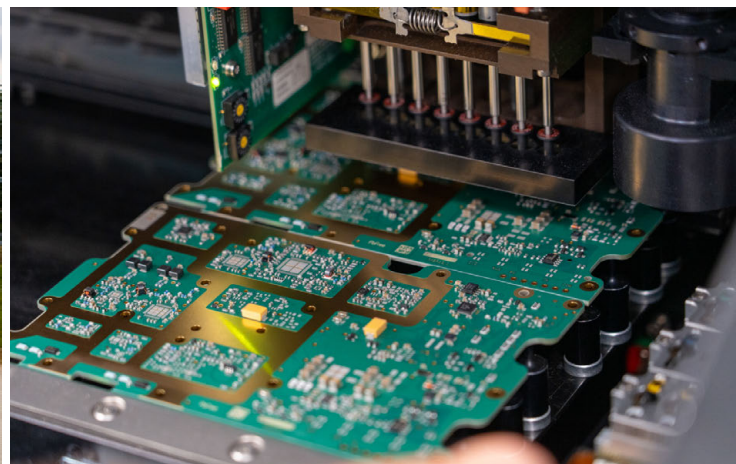
- Dynamic routing on LAN, cellular and radio
- Unlimited repeaters on radio, TCP friendly MAC
- MTBF > 100 years across all product lines

100 % CZECH DESIGN & MANUFACTURING

- Research & Development
- Assembly and testing
- Long-term lifecycle support

SECURE BY DESIGN

- SW developed in-house
- Radio AES encrypted with auto key rotation
- Full linux networking stack



APPLICATIONS

Our wireless networks support the operation of water supply and wastewater systems across large territories – from urban distribution networks to rural and mountainous regions. RACOM networks are designed for SCADA systems, providing deterministic performance, long-term stability and full control over data flow thanks to their outstanding technical specification.

Water Distribution Networks

- Monitoring of reservoirs and pumping stations
- Reliable long-distance SCADA communication
- Non-line-of-sight radio operation in VHF/UHF bands
- Encrypted IP and serial communication



RipEX
Radio Router



Wastewater and Sewer Systems

- Monitoring and control of wastewater treatment plants
- Reliable communication in underground locations, etc.
- Mesh networking for redundant communication paths
- Low power consumption for remote installations



MIDGE
Cellular Router



Flood Protection and Warning Systems

- Monitoring of rainfall, river levels and reservoirs
- Real-time alarm transmission with extremely low latency
- Independent without reliance on public mobile networks
- High availability even during extreme weather events



RipEX
Radio Router



Remote Water Infrastructure

- Solar-powered installations
- Minimal maintenance requirements
- Long device lifetime and predictable system behaviour
- Integration with existing SCADA systems



RipEX
Radio Router

