# Radio modems

Station 1

Station 2

Master Station

Station 6

Station 3

Station 4

Station 5

SATELLAR

MyDevice    RSSI-102 dBm    12.2V

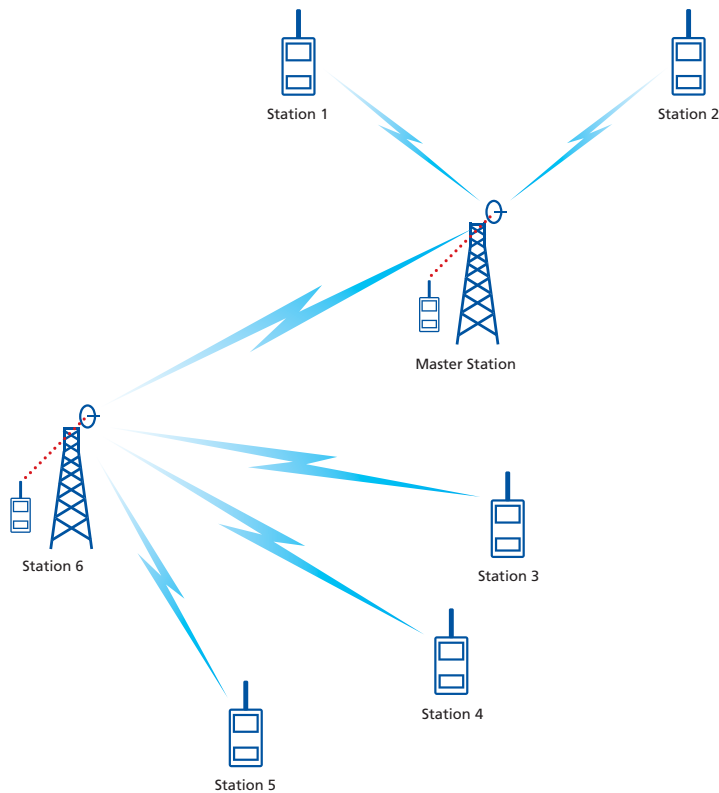Modem Settings    Modem Info

Routing    Diagnostics

Start    Exit

OK

SATEL

**Radio modems** have long been used to build stable, reliable communications over long distances without line of sight. The advantages are many – such as optimised operational communications, monitoring, and flexible automation solutions. There is now an exciting new generation of modems and systems that have raised the bar. With features such as routing, encryption, remote monitoring and Linux sources with the possibility of their own additional applications, you receive a world of new opportunities – with point-to-point links or as cost-effective cabling area solutions.

## Radio

A high-quality, modular digital radio construction, with wide frequency range and adjustable output power, both within licensed and unlicensed frequency bands. Add to this a very high reliability and low interference suscepti-bility, and you have a radio that offers absolute top performance.

Radio modems can be supplemented with unique auxiliary equipment for extra long distance communication in different directions. There is the possibility to use long antenna cables without signal loss and also high quality filter for use in difficult radio conditions.

## Connections

Radio modems come in different versions, both as stand-alone units and modular systems. Ports such as serial, USB or Ethernet is available for connection to external equip-ment. All radio modems can be ordered with a display as an option for the control and reading of actual network information.

## Features

Radio modems are used in both transparent transmission and packet transmission. Transparent transmission is used in ordinary industrial protocol and enables data to be routed to the correct recipient modem. Packet transmis-sion is optimal for communication that follows TCP/UDP. The long and reliable range (without requiring line of sight) opens new opportunities for IP traffic in the radio network. The technology is primarily used where the Ethernet interface feels more important than a high com-munication speed.

## Configuration

The device is configured and programmed with NMS PC software, which also acts as a monitoring tool for the radio network once it is deployed. Via NMS PC, all the radios in the network can be remotely configured in order for the system to function at its best. Devices with Ethernet interfaces can be better configured via the built-in web server, locally or via the internet. This also applies to the remainder of the radios in the network.

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