Remtech introduces the miniature PA-XS acoustic wind profiler

- **400 meters** average range.
- **10 meters** minimum altitude.
- **Multi-frequency** coding.
- **ARM Quad Core CPU** and Linux operating system.
- **10 watts** total power consumption.
- **7 kg** total weight.
- **GPS**, 2D inclinometer, pressure, temperature and humidity sensors.
- **WiFi** for local control (up to 100 m distance).
- **Wireless modem** and/or satellite terminal for remote control.
The PA-XS Sodar includes the latest hardware design. The electronics has been downsized by an extensive use of the SMC technology. The computer part uses an ARM Quad Core CPU which is plugged on a 16 bits A/D converter board. All the hardware matches military specifications (-40 to +60 °C with up to 100% relative humidity) and is fixed underneath the antenna. Wireless modem or satellite connections are available.

This new design includes GPS, 2D inclinometer, Wi-Fi, as well as pressure, temperature and humidity measurements.

The main characteristics for the PA-XS Sodar are:

- **Antenna weight**: 1.850 Kg
- **Antenna dimensions**: 24 cm(L) x 24 cm(W) x 4 cm(H)
- **Electronic case weight**: 3.1 Kg
- **Electronic case dimensions**: 20 cm(L) x 20 cm(W) x 15 cm(H)
- **PA-XS total weight**: 7.3 kg (antenna, electronic case and support)
- **Central frequency**: 5.50 KHz
- **Operating frequencies**: Up to 9 emitted frequencies on each of two coplanar beams
- **Acoustic power**: 5 W
- **Operating conditions**: -40°C to +60°C with up to 100% relative humidity
- **CPU and RAM**: ARM Quad Core, 1 Gbytes
- **Power consumption**: 0.40 Amp @ 24 VDC (9.6 W)
- **Operating system**: Linux
- **Average altitude range**: 400 m (40dBA, 15°C air temperature, 70 % Relative Humidity)
- **Minimum altitude**: 10 m

For local remote control a powerful netbook is supplied. It interconnects with the Sodar through Wi-Fi at a distance of up to one hundred meters.