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.



Technical description and characteristics:

The PA-XS Sodar includes the latest hardware design. The electronics has been down sized 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.



PA-XS Sodar with its standard extra acoustic enclosure (total weight: 20 Kg)

