Edge-Core How to use G-Sensor in OAP100 Instruction Manual

NETWORKS
Technical Guide
How to use G-Sensor in OAP100
Released:2020-05-14

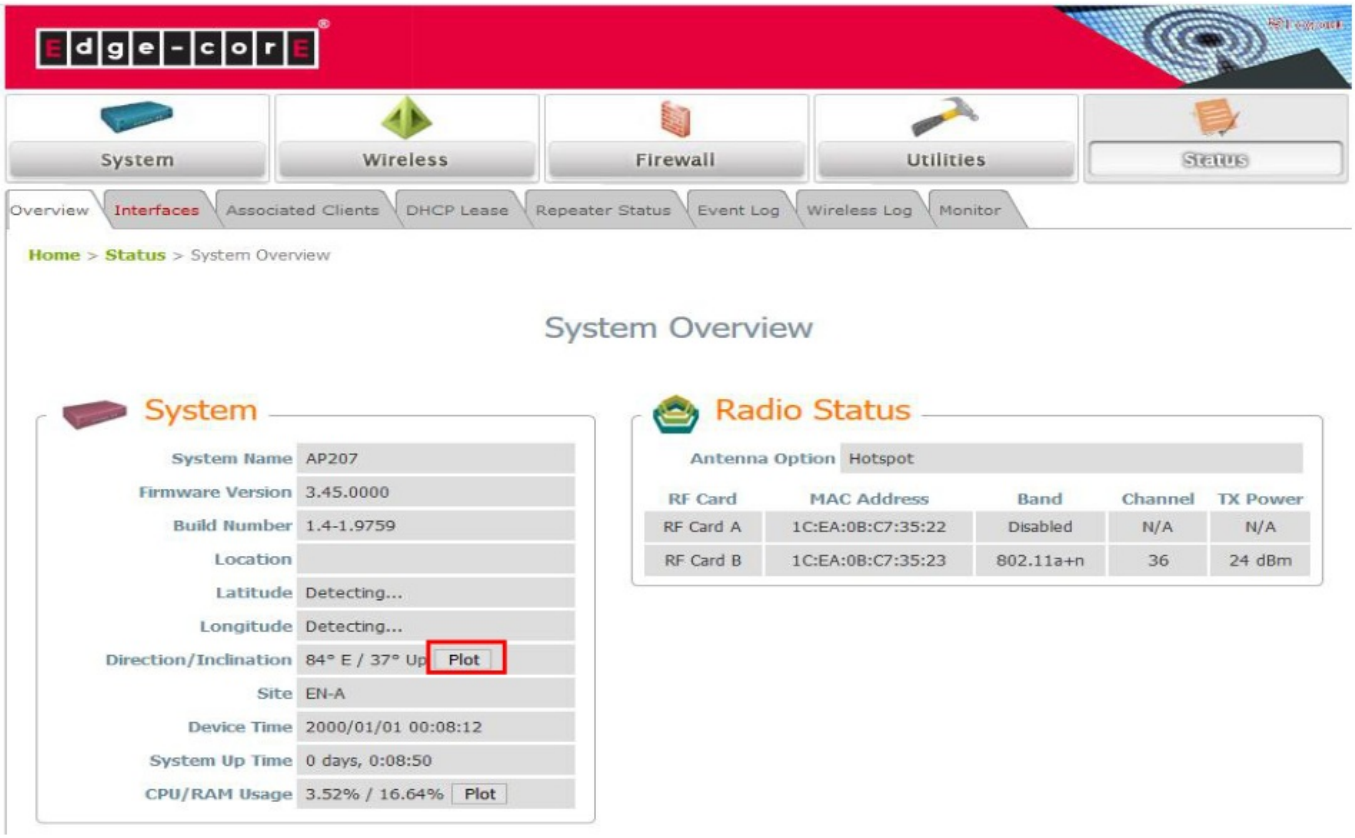
Contents

Introduction

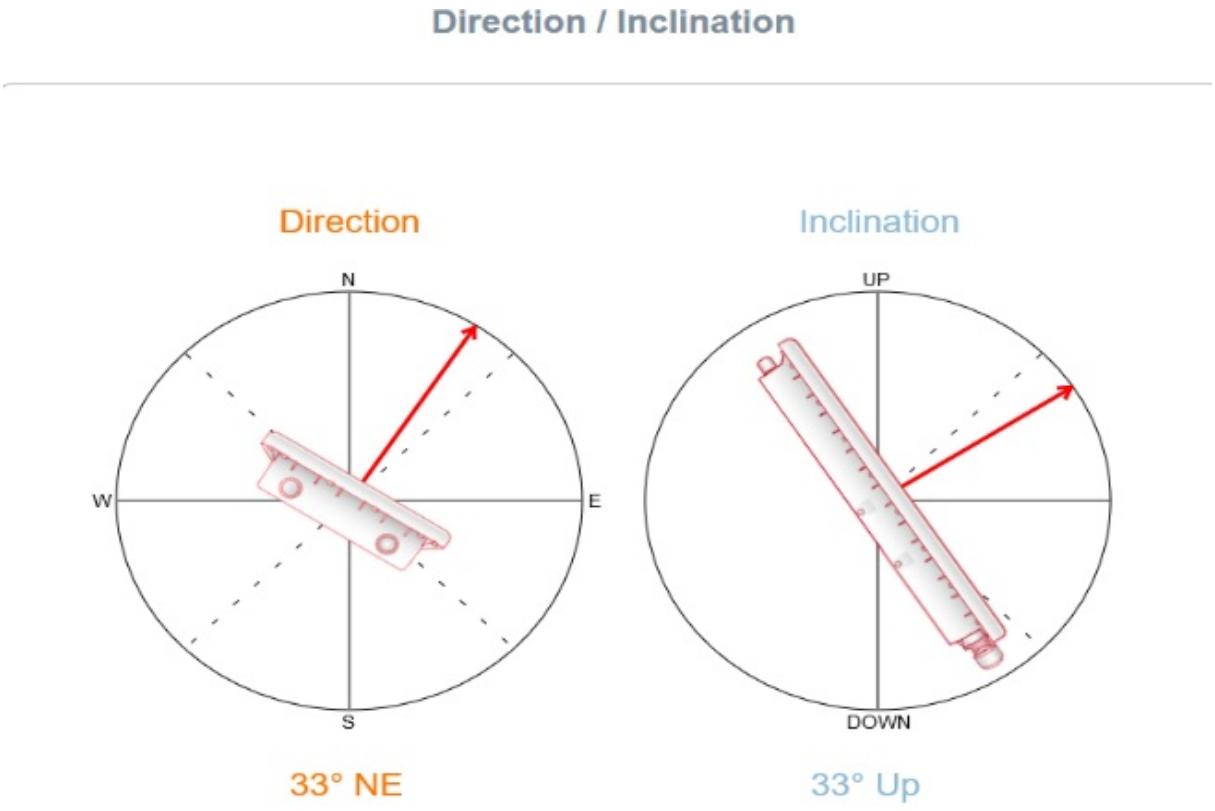
This guide will provide the steps on how to use the G-Sensor mechanism in OAP100 to allow the deployment easier and more accurately when establishing a WDS link. Basically, the G-Sensor mechanism is an embedded electronic compass. During installation, it can be used as a reference to adjust the angle of the APs to the desired direction to establish a more accurate WDS link. By default, this feature is always enabled.

Where is this feature found?

Under Status click on the plot button next to “Direction/Inclination”



And another tab will show up showing two real-time images showing the direction and inclination of the AP

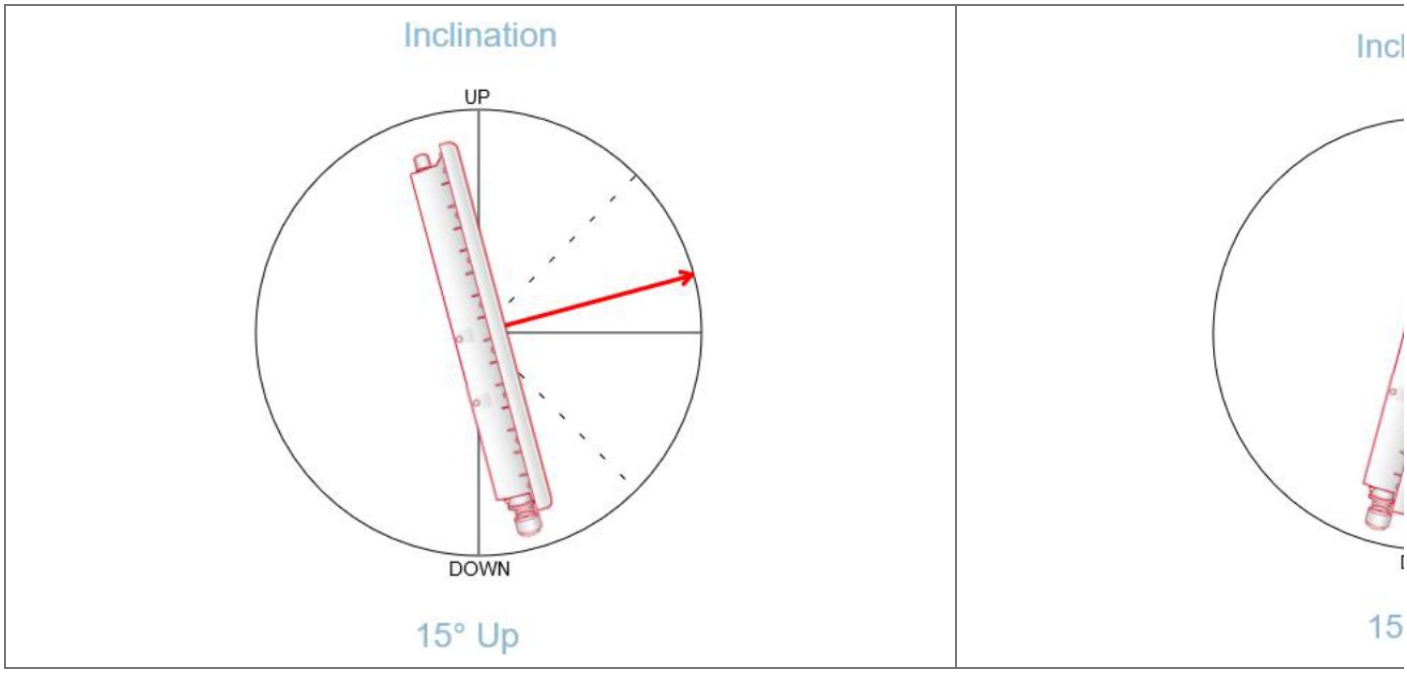


How to read the value and adjust the device

As mentioned before, G-Sensor is an embedded digital compass inside OAP100. Digital compasses are easily

affected by electronic interferences and nearby magnetic sources or distortion. The amount of disturbance depends on the material content of the platform and connectors as well as ferrous objects moving nearby. So, it is better to do the calibration in an open field and have a real compass in hand for better accuracy and adjustments to correct magnetic variation, as it changes with different locations on the earth.

When deploying AP for establishing the WDS link, if one AP is inclined 15 degrees up, then the opposite AP must be declined 15 degrees down. As for the AP, it needs to be standing up, just as shown in the image.



AP1	

As for calibrating direction, AP will need to also be standing up. However, when adjusting the direction, you will need to slowly move the AP to the right or the left. So basically, if one AP is adjusted 90 degrees to the East, the other AP will need to be adjusted 270 degrees to the West.

Remarks

Please contact Technical Support Team for additional inquiries.

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