



Paranet

This all weather, solar powered, internet access relay device is designed to cover the last miles in wireless internet, delivering DSL quality internet to rural locations, hot spots, and fields.

Up to 64 channels are served simultaneously, linking a main tower with end users and other Paranets in a daisy-chain.

Installation time is less than 30 minutes. A field kit is available for mounting on utility poles.

Features

- DSL quality speeds on up to 64 channels,
- All weather, round the clock operation,
- No external wiring,
- No conduits, no external connections,
- 802.11b/g operation,
- Designed for long term operation without maintenance,
- Lightning suppressors and circuit breakers included,
- External monitoring inputs available

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Specifications

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| Name | Paranet internet access relay device |
| Antennas | Back bone: plate phased array, 24° beamwidth, 14 dB gain or sector antenna End user: omni whip, sector, or phase array |
| Range | Back bone: up to 10 miles depending on antenna, End user: up to 2 miles with sector or plate, 1 mile with omni |
| Communications | 802.11b/g, either 2.4 or 5.8 GHz. |
| Speed | DSL, minimum 789 kb/s, both upload and download, |
| Auxiliary Inputs | Weather sensing data, including temperature, wind speed, humidity |
| Power | Solar powered, 12 V dc (11 to 16 V dc), 0.4 Amps, 80 Watt solar panel, 110 A-hour battery, circuit breakers, and lightning suppressor |
| Size | Self Supporting Mast : 12' to 20' x 4" Solar Panel: 47.3" x 21.1" x 1.2" Electronics Enclosure Box: 15.5" x 16" x 9" Omni Whip Antenna: 9" to 71" |
| Installation | 3' stub buried in ground, then 12' to 20' pole, with most hardware pre-installed is mounted on top, or Strap kit for wooden utility poles, or U-Clamp bolt on kit for metal utility poles. |