

1. Introduction



The Hercules WS.03 is a high efficiency, high gain permanent mount antenna designed to cover all Wi-Fi bands including frequencies for Wi-Fi 6, up to 7.125GHz. It has omni-directional gain across both bands ensures constant reception and transmission making the WS.03 an ideal solution for varied Wi-Fi applications.

At only 29mm high, with a diameter of 49mm, the Hercules has been designed as a covert solution, for use in the most challenging of environments. With a durable UV-resistant ASA housing that is IP65 rated, the WS.03 is resistant to vandalism and is supplied with a heavy-duty thread for secure mounting.

Typical Applications Include:

- Remote Monitoring
- Gateways and Routers
- HD Video Streaming
- Smart Cities

Many module manufacturers specify peak gain limits for any antennas that are to be connected to that module. Those peak gain limits are based on free-space conditions. In practice, the peak gain of an antenna tested in free space can degrade by at least 1 or 2dBi when put inside a device. So ideally you should go for a slightly higher peak gain antenna than mentioned on the module specification to compensate for this effect, giving you better performance.

The cable and connectors are fully customizable, for further information please contact your regional Taoglas customer support team.

4. Radiation Patterns

4.1 Test Setups

