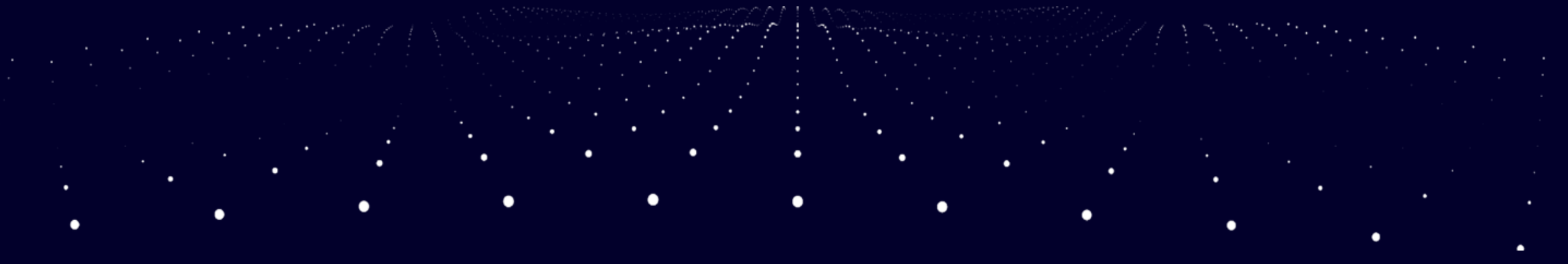
antenova®

Wi-Fi6E Antennas

Billi SMD SR43W078
Lotti FPC SRF3W077
Nitida Terminal SRE3W084



Product details

Antenova Wi-Fi6E antennas cover the 2.4GHz, 5GHz, & 6GHz Wi-Fi bands. The advantages of the FPC & SMD antennas over competitors are their small dimensions and high efficiency.

Size	Average Efficiency 2.4GHz, 5GHz, 6GHz		
Billi SMD 15 x 6 x 1mm	70%	60%	65%
Lotti FPC 30 x 8 x 0.15mm	70%	65%	70%
Nitida Ext 123.7 x 12.7 x 12.1mm	70%	58%	55%

Billi

Nitida

Lotti

Target applications

The 6-7GHz band for Wi-Fi6E has extra bandwidth compared to Wi-Fi6. The extra bandwidth is useful for high bandwidth applications such as compressed video.

Applications for Antenova Wi-Fi6E antennas include:

- High resolution video
- CCTV over Wi-Fi
- IoT (Internet of Things)
- Wi-Fi6E routers
- High bandwidth video

Market positioning

What's unique about each antenna?

- Billi has a high efficiency within a small clearance area of 16x7mm. The efficiency is higher than competitor antennas with similar clearance areas.
- Billi antenna works best on a ground plane of 60x40mm

- The advantage of the Lotti FPC antenna is that it does not require a matching network, and does not use the ground plane of the host PCB.
- The high efficiency of the Lotti antenna helps to extend the coverage area of WiFi network.

- The Nitida antenna is suited for products that have a SMA connector for an external antenna. Nitida does not use a matching network, and a waterproof version is available.

FPC antennas have a backing strip that is peeled off so and the antenna is glued to the product housing.

Market positioning

Why choose Antenova Wi-Fi6E antennas?

Billi is designed for products that require SMD antenna and is suited to high volume automated manufacture.

Lotti FPC does not require a minimum ground plane size, and is suitable for small-sized products.

Comparison against competitor antennas

Billi SMD has a smaller clearance area than competitor Wi-Fi6E antennas.

Billi size: 16x7mm clearance area – Area 112 sqmm

Lotti FPC has a smaller area than competitor FPC antennas or has higher efficiency

Size 30 x 8mm Efficiency: 70/65/70%

Competitor FPCs

A: FPC 16x7.6mm does not work at 2.4GHz

B: FPC 30x7mm Lotti is smaller

C: FPC 110x20 mm Lotti is smaller

D: FPC 14*5mm 40/53/53% Lotti has higher efficiency

E: FPC 42*7mm Lotti is smaller

Summary of Antenova WiFi6E antennas

- WiFi6E used for high-speed data connections
- WiFi6E routers requiring antennas that cover new bands
- Billi & Lotti antennas have high efficiency within a small area
- Lotti and Nitida antennas are plugged into the PCB, this enables a short design cycle

Antenova provide a design review and give design advice at **ask.antenova.com**

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