**Quick Facts:**
- Magneto-dielectric (MD) layering incorporated into the flexible antenna reduces the antenna size by a factor of the refractive index.
- MD layer enhances the electromagnetic (EM) energy radiation by lowering the EM energy concentrated at the antenna substrate improving antenna gains.
- Improved bandwidth and matching characteristics of the antenna through the permeability of the antenna substrate.

**Substrate structure**
- Antenna radiator
- Magneto-dielectric layer
- Flexible PCB carrier

**Overleaf structure**
- Magneto-dielectric layer
- Antenna radiator
- Flexible PCB carrier

**Embedded structure**
- Magneto-dielectric layer
- Antenna radiator
- Flexible PCB carrier

**Magnetic Flexible Antenna Gains:**
- High miniaturization factor
- Improved bandwidth and matching characteristics
- Increased antenna performance

**Dielectric Antenna Drawbacks:**
- Larger in size
- Technology outdated
- Lower antenna gains

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