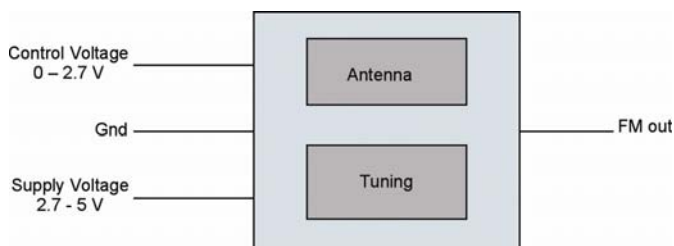


Tavvel™ Active FM Antenna

87.5 to 108 MHz



Block Diagram

Ethertronics' Tavvel series of internal, active FM antenna delivers on the key needs of today's unified media product designers: **high performance, small form factor and low power consumption**. The internal active antenna can be customized to fit in a wide range of handsets and video products:

- Mobile Phones
- Notebook Computers
- Portable DVD Players
- Media Appliances

DESIGN ADVANTAGES

Quicker Time-to-Market

- By optimizing antenna size, performance and emissions, customer specifications are more easily met.

High receive performance, Low power consumption

- Ethertronics' unique internal FM antenna approach provides **high receive performance and low power consumption**.

Simplified Integration

- Single control line simplifies integration with the receiver.

Greater Flexibility

- Ethertronics' unique internal FM antenna approach allows for custom antenna solutions that take advantage of the specific topology of the wireless device.

RoHS Compliant

- Ethertronics' antennas are fully compliant with the European RoHS Directive 2002/95/EC.

More information is available on our Website at www.ethertronics.com/resources.



KEY BENEFITS

END USER ADVANTAGES

Flexible, Internal Form Factors Support Advanced Industrial Designs

- Smaller, more efficient internal antennas break through restrictive design rules and provide new freedom in component placement.

Superior Range & Signal Strength

- Ethertronics' FM antenna provides external antenna performance in an internal form factor providing great receiver performance—delivering greater customer satisfaction while building brand loyalty.

SERVICE AND SUPPORT

Extensive RF Experience

- Our design teams are composed of RF PhDs, project managers and a complete engineering team to support every project — from initial prototyping to final performance testing.

Global Operations & Design Support

- Ethertronics' global operations support an integrated network of design centers that can take projects from concept to production.

Electrical Specifications

Typical Characteristics (inside an enclosure)

FM Antenna	87.5 to 108 MHz
3 dB Bandwidth	1 MHz
Control Voltage	0 to 2.7 V
Supply Voltage	2.7 to 5 V
Polarization	Linear
Feed Point	50 ohms
Return Loss	-10 dB
Current Consumption	2.8 mA

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