

## Embedded Antennas Internal Cellular Antennas



**EM-700/2700  
 Embedded  
 Antenna**

- Off-the-shelf antenna
- Boards have special coating to inhibit oxidation and maintain performance
- Designed to be integrated/embedded into OEM designs

Mobile Mark's range of embedded or internal antennas can be used by Cellular OEMs, systems integrators or contract manufacturers to improve the efficiency of the wireless units they are producing.

The boards have a special coating to inhibit oxidation and maintain performance.

Our antennas have been used in applications as diverse as smart meters and vending machines.

For further protection, most antenna boards can also be encased in a molded plastic body or a hard plastic case.

The EM-700/2700 embedded antenna has capability for broadband cellular with a low-profile circuit board design that can be easily integrated into a wide variety of Cellular M2M applications.

The EM-700/2700 covers broadband cellular frequencies from 694-960 MHz & 1710-2750 MHz. The gain for this antenna ranges from 0 dBi in the low band (694-960 Mhz) to 2.5 dBi peak in the high band (1710-2750 MHz).

Model #	Description
EM-700/2700-2C-6	With SMA connector and 6 inches (15.2 cm) of RG-174 cable
EM-700/2700-OR-6	With U-FL connector and 6 inches (15.2cm) of RG-178 cable
EM-700/2700-7C-6	With SMA connector and cable 6 inches (15.2cm) of LMR-100
Other cable and connector combinations are available	

The off-the-shelf design presented here will typically meet performance requirements for traditional GSM/CDMA Cellular devices.

If there is something unusual about the final setting or application, Mobile Mark can help with a custom designed antenna.

Mobile Mark has the experience to design just the right antenna for your device. We offer state of the art design capabilities, including 3-D simulations using design software. We also offer in-house prototype development for quick turn-around.

Specifications			
Frequency:	694-960 MHz & 1710-2750 MHz	Dimensions:	4.96" x .53" (12.6cm x1.3cm)
Gain:		Standard Cable/Connector:	6-inches (15.2 cm) RG-174 with SMA plug
694-960 MHz	0 dBi	Optional Cable:	LMR-100 & RG-178 or
1710-2750 MHz	2.5 dBi	Optional Connector:	U-FL connector (OR configuration)
VSWR:	2.5:1 max over all bands	Mounting:	Fixed double sided tape
Operating Temp:	-40° to +80° C		
Nominal Impedance:	50 Ohms		
Maximum Power:	10 watts		