

# Patch Antenna

(part. pend.)

**MOBILE MARK®**  
COMMUNICATIONS ANTENNAS



P77-2400 shows wall mounted

## WLAN & 2.4GHz ISM Applications

- 114mm weatherproof radome; perfect for in-building & outdoor coverage
- 7dBi Gain model for 2.40-2.49GHz
- Semi-hemisphere radiation pattern for easy installation
- Unique design provides high performance at an economical price

## PRELIMINARY INFO

Mobile Mark's 2.4GHz P7 Series Patch Antennas are perfect for Wireless LAN systems, as well as other applications in the ISM band. They have features that make them invaluable, solving many of the problems normally associated with 2.4GHz patch designs.

The antennas use a unique plate-air dielectric technology that provides significant improvements in efficiency while being very economical. VSWR performance is maintained across the operating bandwidth.

### Model Numbers

Model	Description
P77-24000	Patch Antenna with 914mm pigtail/SMA, Fixed Mount
P78-24008	Patch Antenna with 914mm pigtail/SMA, Swivel Mount
P77-2400T	Patch Antenna with 914mm pigtail/TNC, Fixed Mount
P78-2400T	Patch Antenna with 914mm pigtail/TNC, Swivel Mount

TNC/SMA connectors provided are female. For other connectors including reverse polarity, or cable configurations, please consult factory.

The antenna design also provides near hemispherical energy radiation, resulting in broad area coverage, yet maintaining directivity and isolation. The antennas provide 7dBi gain with vertical polarization.

The P7 Series Patch antennas are small and provide an attractive design. They have a diameter of 114mm, with a depth of only 19mm (not including mounting hardware depth). The radomes consist of an extremely durable polycarbonate material. They are finished in ergo-white with stylized accents, providing aesthetic installations in all environments. They are durable and weatherproof.

The antennas are supplied with either a swivel mount, or a fixed/pole mount. The swivel mount allows them to be angled left or right within 30 degrees. The fixed mount allows flush wall installation, and pole mounting.

The cable exits near the bottom of the antennas in a "lockloop" port. This allows the cable to be directed up, down or straight back. The antennas terminate with 914mm of low loss RG-188 with a choice of a TNC, SMA or other "Part 15" compliant connectors. Please consult factory for details on the "Part 15" configurations and models.

### Specifications

Frequency:	2400-2485 MHz	Antenna Radome:	White Polycarbonate
Gain:	7dBi nominal	Weight:	250 gms
Bandwidth @ 2.0:1 SWR:	85MHz	Mounting:	Fixed/pole mount or swivel mount with articulating bracket
Impedance:	50 ohm nominal	Swivel Standoff:	75mm from wall to outer radome surface centered
Maximum Power:	50 watts	Mounting Dimension:	Mounts up to 51mm outside diameter mast
E Plane beamwidth:	40°	Connector:	TNC or SMA female, others available upon request
H Plane beamwidth:	60°	Cable:	914mm of RG-188
Front-to-Back ratio:	10dB minimum		
Lightning Protection:	external recommended		
Radome Size:	114mm D x 19mm H		
Rated Wind Velocity:	160 kph		

100-100 Anglesey Business Park, Littleworth Road, Hednesford, Staffs. WS12 6NR, U.K.

Tel: +44 1543 879340 Fax: +44 1543 871714 E-mail: [enquiries@mobilemark.europa.co.uk](mailto:enquiries@mobilemark.europa.co.uk)

Visit our web page : [www.mobilemark.com](http://www.mobilemark.com)

Specifications subject to change without notice.