



Technologies Corporation

EMC Test Laboratory

Cedar Rapids, IA

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The long antenna is 7-inch (17.8-cm) long $\frac{1}{2}$ wave end-fed whip dipole from Centurion part number CAF28766, Intermec part number 805-490-004. Gain -2.5 dBd, VSWR 1.5:1, 50 Ohms.

ERP Calculator

$\text{dBd} + 2.17 = \text{dBi}$

TX Frequency (MHz)	900	Watts	2	Antenna Gain dBi	-0.33
				Antenna Gain dBd	-2.50
Cable Losses dB	0.2	dBm	33.010300	radiated dBm	30.310300
Calculated ERP (mW)		1074.063593		1.1	Watts

The short antenna is 3.5-inch (9-cm) long $\frac{1}{4}$ wave end fed dipole from Mobile Mark model number PSTN2-899CI, Intermec part number 805-572-002. Gain -1.2 dBd, VSWR 2-2.5:1, 50 Ohms.

ERP Calculator

$\text{dBd} + 2.17 = \text{dBi}$

TX Frequency (MHz)	900	Watts	2	Antenna Gain dBi	0.92
				Antenna Gain dBd	-1.25
Cable Losses dB	0.2	dBm	33.010300	radiated dBm	31.560300
Calculated ERP (mW)		1432.286820		1.4	Watts