



COMPONENT SPECIFICATION

APPROVED SUPPLIERS

Manufacturer	Address/Telephone	805-624	Manufacturer's Part No.
Centurion International, Inc.	P.O. Box 82846 Lincoln, NE 68501 (402) 467-4491	-001	CAF28958

1.0 Scope: This specification describes the requirements for a triband antenna designed for the Model 761 handheld computer supplied as follows:

<u>Intermec P/N</u>	<u>Description</u>
-001	Antenna, North America CDMA and GPRS

2.0 Quality Assurance: Intermec Receiving Inspection reserves the right to use AQL sampling techniques when inspecting a lot.

REVISION HISTORY

Rev.	File No.	Description of Change	Date	Approved
1	- - -	Prerelease	3/23/04	S K
A	C4328	Release spec, Add manufacturer P/N, Revise ¶1.0	7/13/04	H R E

REVISION LEVEL	A	A	A																								
SHEET NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
COMPONENT ENGR.	DATE		Intermec Technologies Corp.										TITLE														
J. McROBERTS	7/09/04												ANTENNA, CDMA/GPS/PCS TRIBAND														
COGNIZANT ENGR.	DATE		550 Second Street S.E.										DRAWING NO.														
S. KELLY	- - -		Cedar Rapids, IA 52401										805-624-001														
APPROVED	DATE		Telephone No. (319) 369-3100										Sheet 1 Of 3														
K. VORHIES by HE	7/13/04		Facsimile No. (319) 369-3453																								

3.0 **Packaging:** All antennas will be packaged in containers capable of protecting them from damage in common carrier shipping and handling.

4.0 **Markings:** Each container will be labeled or otherwise marked with the manufacturer's name or trademark, and the catalog designation. Major shipping cartons will be marked with the Intermec part number.

5.0 **Antenna Specifications:**

5.1 Nominal Frequencies: 850 MHz, 1575 MHz and 1900 MHz

5.2 Frequency Range.:

<u>Mode</u>	<u>Low</u>	<u>Mid.</u>	<u>High</u>
PCS Transmit:	1850	1880	1910 MHz
PCS Receive:	1930	1960	1990 MHz
GPS:	1574	1575	1576 MHz
CDMA 800 (TX):	824	836	849 MHz
CDMA 800 (RX):	869	881	894 MHz

5.3 Peak Antenna Gain:

<u>Mode</u>	<u>RX\TX</u>	<u>Retracted/INT</u>
PCS:	3 dBi min.	2 dBi min.
GPS:	0 dBi min.	-1 dBi min.
CDMA 800:	2 dBi min.	0 dBi min.

5.4 Free Space Maximum VSWR:

<u>Mode</u>	<u>Low</u>	<u>Mid.</u>	<u>High (Max.)</u>
PCS (TX):	2.0	1.5	1.5
PCS (RX):	1.5	1.5	2.0
GPS:	3.0	3.0	3.0
CDMA 800 (TX):	2.3	1.8	1.5
CDMA 800 (RX):	1.5	1.8	2.3

5.5 Power: 2 Watts

5.6 Polarization: Linear

5.7 Nominal Impedance: 50 Ohms

5.8 Radiation pattern : Omni-directional when antenna is held in a vertical orientation

6.0 **Mechanical Ratings:**

6.1 Antenna Weight: Not specified

6.2 Ambient Operating Temperature: -30 C to +60 C

6.3 Antenna Interconnection Means: Standard sex SMA plug

7.0 Materials:

7.1 Radiator Element: TBD

7.2 Coaxial Plug: SMA

7.3 Ferrule/plug: TBD

7.4 Adhesive: TBD if need betwren radome and ferrule

7.5 Radome material : TBD

8.0 Outline Drawing (Inch):

Length - 2.1" (53mm) nominal
Diameter - 0.4" (10mm) nominal

