

Intermec CN50 vs. Motorola MC55

Competitive Overview



Intermec CN50



Motorola MC55



Company Product Line	Mobile Computing, Printers, RFID	Mobile Computing, RFID
WWAN Radio	3.75G UMTS HSDPA/HSUPA, or CDMA 1x-EVDO Rev A	Older 2.5G EDGE
Upload Speed	2.0 Mbps	118 kbps
CDMA Radio	Standard: CN50 can be converted from CDMA to UMTS or vice versa. This allows customers to deploy a single hardware platform onto different carrier networks. Also this enables customers to change networks to optimize geographic coverage or minimize costs.	None
Color Camera	2 capture options: Integrated 3.1 Mega Pixel, Auto focus Camera, plus 2D Imager	2 capture options: 2 Mega Pixel and no flash Camera, plus 1D, 2D Scanner
eMDI	Enhanced Mobile Document Imaging (eMDI)	Limited
Digital Compass	CN50 has a digital compass for use with multiple applications. Digital compass enhances navigation performance when used in conjunction with GPS.	None
Display	3.5" QVGA	3.5" QVGA
CPU	Dual ARM processors plus 2 dedicated DSPs. ARM 9 and ARM 11 operate at 528 MHz.	520 MHz Intel XScale
GPS	Qualcomm GPSOne with assisted-GPS	Integrated Assisted-GPS (A-GPS); SiRFstarIII GSC3f/LP chipset
Accelerometer	Standard: Internal accelerometer has numerous uses including auto screen orientation and power savings. Motion detection can determine whether or not device is being used and if worker is working.	None
Wifi	802.11 b/g	802.11 b/g
Ergonomics	74.3 x 153 x 27.5 mm	76 x 153 x 27 mm
Weight	303 g	336 g
Maintenance	Service from the start.	Service from the start.
RAM Memory	128MB RAM	128MB RAM
Flash Memory	512MB Flash	256MB Flash
Drop / Seal	5 ft. / IP54	4 ft. / IP54

CN50 wins because...

- **WWAN radio, Software Defined Radio**
The CN50 3.75G WAN radio has significant speed and capability over the older 2.5G EDGE in the MC55. 3.75G provides improved productivity (reduced time spent on data transfer) and allows the device to be used in future applications that are not practical at 2.5G speeds. The MC55 does not have a CDMA option and therefore it does not offer anything for Verizon or Sprint customers. The WAN radio in CN50 can be reprogrammed to change between UMTS and CDMA.
- **Camera**
The CN50 has a 3.1MP camera and a flash, versus the MC55 which has just 2MP and no flash. For users that need to take pictures, the CN50 will provide significantly higher quality and better ease of use. This translates to improved productivity and better customer service.
- **eMDI**
Customers who use document imaging today or who plan to expand their capability in the future will value the Enhanced Mobile Document Imaging on the CN50. It saves time for those who use it today and it offers a way to expand services for business growth.
- **Digital Compass**
Digital Compass provides a significantly better navigation solution than just GPS for both pedestrian and vehicle based applications because you do not need to be moving for the compass to know what direction you are pointed which leads to improved turn by turn directions. Digital compass combined with GPS and camera provides a much better solution for documenting "crash scene" or field service repairs in a single device.
- **Ruggedness**
The CN50 exceeds the MC55 drop spec. The CN50 is specified to 5 feet using a Mil-Std test method which includes all 26 faces, corners, and edges. The MC55 is specified to just 4 feet and this is only on the 6 sides. Historically, our experience is that exposed, external antennas are a weak spot, and for this reason the antenna on the CN50 is integrated into the overall design. This appears to be a potential weak spot in the mechanical design of the MC55. In many ways the quality differences are subtle. Try it for yourself. Perform a simple side by side between CN50 and MC55, and you will conclude the CN50 has a much more solid, quality feel. The CN50 is designed to last.
- **High speed processor, larger memory, and the capability for a 32 GB SD card**
means the CN50 can store more data and will perform applications faster than MC55. This improves productivity and allows the device to be used for more applications.

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