



Feature Comparison: MC5590 vs. MC55A0

The Motorola MC55A0 Mobile Computer Series builds on the successful MC5590, offering all the latest in technology in this compact and lightweight form factor. You get a more rugged design, more power to support today's applications, more scanning options, a higher resolution camera, a superior energy efficient display and a new model designed for point of care bedside applications in healthcare facilities. The following chart highlights the technology advances in this next evolution mobile computer.

FEATURE	MC5590	MC55A0 SERIES	CUSTOMER BENEFIT
Processor	Intel XScale PXA270 @ 520 MHz	Marvell PXA320 @ 806 MHz	Faster processing improves application performance and user productivity, translating into minutes or even hours saved each week.
Memory	128MB RAM/512MB Flash	256MB RAM/1GB Flash	Large memory footprint improves application processing speed — with ample processing space, there is no need to swap programs in and out of memory during a transaction.
SD Expansion Slot	MicroSD card up to 16GB	MicroSD card up to 32GB	Increased expansion slot capacity provides ample storage for the largest applications.
Display	3.5 in. QVGA color touchscreen	Energy-efficient PenTile® 3.5 in. VGA color touchscreen, super bright 650+ NITS	Crystal clear text and graphics are easy to view in virtually any lighting condition — indoors and outside. An additional white pixel improves contrast and the energy-efficient engineering delivers twice the brightness at half the power of typical displays.
Interactive Sensor Technology (IST)	No	Yes	Enables leading edge motion-based applications, including dynamic screen orientation, power management and free-fall event logging as well as access to accelerometer data for custom applications.
Scanning Options	1D Laser (SE950) 1D/2D Imager (SE4500-SR) 1D/2D Imager with Driver's License support (SE4500-DL)	1D Laser (SE960) 1D/2D Imager (SE4500-SR) 1D/2D Imager with Driver's License support (SE4500-DL) 1D/2D Imager with DPM support (SE4500-HD)	Motorola's next generation SE960 1D laser scan engine improves scanning performance for 1D bar codes. A new SE4500 option, the SE4500-DPM, allows the capture of the high-density 2D codes and direct part marks (DPMs) common in manufacturing.
Drop Specification	4 ft./1.2 m drops to concrete across the operating temperature range	6 ft./1.8 m drops per MIL-STD 810G specifications	Greatly increases the device's ability to perform reliably, despite the inevitable everyday drops and bumps.
Tumble Specification	250 1.6 ft./0.5 m tumbles (500 hits) per IEC tumble specifications	1,000 1.6 ft./0.5 m tumbles (2,000 hits) per IEC tumble specifications	
Sealing	IP54 per IEC sealing specifications	IP64 per IEC sealing specifications	The device is completely dust tight, ensuring dependable operation even in dusty environments.
Camera	2 MP autofocus with user controllable flash	3.2 MP autofocus with user controllable flash	Improved resolution allows the capture of more detailed images.
Healthcare Model	No	Yes — with healthcare-friendly blue and white colors and an antibacterial handstrap	Expands market to healthcare facilities — designed for point of care bedside applications.
Motorola Mobility Platform Architecture (MPA)	MPA 1.5	MPA 2.0	The latest Motorola MPA platform provides the latest best-in-class technology architecture, providing an extended lifecycle and future-proofing. In addition, the standardized platform preserves existing application investments by enabling easy and cost-effective porting of applications from other Motorola mobile computers.
Bluetooth Version	2.0 with EDR (Enhanced Data Rate)	2.1 with EDR (Enhanced Data Rate)	The latest Bluetooth technology provides a faster wireless connection to more device types (up to 3 Mbps) over a more secure connection.
Vibrate Alert	No	Yes	Customers and co-workers are not disturbed when users receive incoming calls or new voice or text messages.
Backup Battery	No	Yes	Prevents loss of data in main memory during a main battery swap.

