




# Consumer Ultra Mobile PC Units

## COMPARISON CHART

						
Panasonic Toughbook U1	Fujitsu LifeBook U810	HTC Shift	OQO Model 02	Samsung Q1 Ultra	Comments	

### RUGGEDNESS FEATURES

Magnesium Alloy Design	•			•		Magnesium alloy design leads to less likelihood of damage resulting from drop or impact
Shock-mounted Hard Drive or Solid State Drive	•	•		•	Option	
Removable Drive	•					Removable drive provides added data protection
LCD Mounting Protection	•					Insulates LCD to minimize risk of cracking caused by impact
Fanless Design	•					Fanless design helps to keep out water and dust, reducing weight and points of failure
Sealed All-weather Design	•					Allows a product to be used outdoors in rain or other inclement weather without fear of damage
Spill-resistant Keyboard	•					
Drop Test	4 feet (MIL-STD-810F)					
Ingress Protection Rating	54					Indicates how well-sealed a product is against intrusion from dust and water
UL1604 Class 1 Division 2 certified Model	•					UL1604 Class 1 Division 2 certification is required in hazardous areas to prevent potential sparks
Sunlight-viewable Display	•					A sunlight-viewable display can be read almost as easily outdoors in bright sunlight as it is indoors
Anti-glare Screen Treatment	•					Anti-glare treatment improves viewability indoors by reducing glare caused by fluorescent lighting
Anti-reflective Screen Treatment	•			Option		Anti-reflective treatment improves viewability outdoors by reducing the appearance of reflections
Screen Protection Film	•	Option	•	•		Protectant film reduces the expense and downtime of having to replace worn LCDs
Carrying Strap	•				Option	Strap makes UMPC easier to handle, making it less likely to be dropped
Integrated Hidden (3G) Antenna	•	•	•		•	An integrated antenna reduces likelihood of accidental breakage when a unit is dropped or hits another object
Integrated Mobile Broadband (3G) Option	•	•	•	•	•	
Integrated Wi-Fi	A/B/G/Draft-N	A/B/G	B/G	A/B/G	B/G	Draft-N is faster and has a wider range than previous standards
Bluetooth® 2.0 (Class 1 approx. 300' range, Class 2 approx. 33' range)	• (Class 1)	• (Class 2)	• (Class 2)	Option (Class 2)	Option (Class 2)	Class 1 has approximately 9x the range, allowing greater mobility; 2.0 is 3x faster, uses less energy and is backwards compatible
Backlit Keyboard	•			•		Backlit keyboards allow easier typing at nighttime and in low-light environments
Warranty	3 years	1 year	1 year	1 year	1 year	Panasonic offers 3x the warranty period

### KEY FEATURES

Screen Size	5.6"	5.6"	7.0"	5.0"	7.0"	
Screen Resolution	WSVGA 1024 x 600	WSVGA 1024 x 600	WVGA 800 x 480	WVGA 800 x 480	WSVGA 1024 x 600	
Touchscreen	•	•	•		•	Touchscreens allow easy data entry and interaction, providing an intuitive interface
Full QWERTY Keyboard	•	•	•	•	•	
Number of Keys/Buttons (not including power or scanner buttons)	69	66	71	59	47 to 51 (varies by model)	The U1 has approximately 20% more buttons than OQO and 40% more than Samsung, allowing for more PC-like feel and functionality



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### KEY FEATURES (CONT.)

Dedicated Programmable Buttons	4	2			4	More dedicated programmable buttons allow for increased speed and efficiency
Directional Buttons	•	•	•	•		Traditional directional buttons facilitate fast movement in programs like spreadsheets, slides and word processing
Zoom Buttons	•			•		Dedicated zoom in and out buttons allow for easy viewing
Scroll Buttons	•	•				
Weight (without options or attachments)	2.3 lbs	1.6 lbs	1.8 lbs	1.0 lb	1.5 lbs	
Dimensions (L x W x H) (without attachments)	5.9" x 7.2" x 2.2"	6.0" x 7.3" x 1.3" <sup>1</sup>	5.1" x 8.1" x 1.0"	3.3" x 5.6" x 1.0"	5.0" x 9.0" x 0.9"	
Battery Life (with standard batteries)	9 hours	5.5 hours	2 hours	3 hours	4.5 hours	U1 provides 3.5 to 7 more hours of battery life compared to these competitors
Hot Swappable Batteries	•					The U1 can support hours of continued uninterrupted operation versus just minutes—ideal for when there are no outlets or charged batteries available and the job still needs to get done
Twin Batteries	•					Interchangeable twin battery design can give users much more time to change batteries without losing data
Windows® XP SP2 Professional	•	Option		Option (Home Standard)		U1 is the only UMPC in this comparison that offers Windows XP free of charge
Windows Vista® Business	•	Option (Home Standard)	•	Option	Home Only	Vista® Business is better suited for enterprise environments than Vista Home
Standard Processor	Intel Atom Z520 (Menlow)	Intel A110 (McCaslin)	Intel A110 (McCaslin)	Via C7-M ULV	Intel A110 (McCaslin)	The U1 utilizes the latest generation of silicon from Intel, the world's leading manufacturer of CPU processors
Standard Processor Clock Speed	1330 MHz	800 MHz	800 MHz	1200 MHz	800 MHz	Intel Atom is expected to have better performance and use less power than previous generation Intel low-power chips
Standard L2 Cache	512 KB	512 KB	512 KB	128 KB	512 KB	L2 Cache allows for faster access time to data than just using RAM
Standard Front Side Bus (FSB)	533 MHz	400 MHz	400 MHz	400 MHz	400 MHz	The U1 has more than 30% larger FSB; the larger the FSB, the more data that can go back and forth between the CPU and RAM
Standard Hard Drive	16GB SSD	40GB HD	40GB HD	40GB HD	40GB HD	SSD offers better protection, uses less power, weighs less, makes no noise and has faster start-up / access times
Standard RAM	1 GB	1 GB	1 GB	512 MB	1 GB	
USB / SD / CF Mic or Mic Port / Headphone / Expansion	1 / 1 / 0 1 / 1 / 1	1 / 1 / 1 1 / 1 / 0	1 / 1 / 0 1 / 1 / 0	1 / 0 / 0 1 / 1 / 1	2 / Option / 0 1 / 1 / 0	U1 has a USB port, which is useful for attaching devices such as printers, keyboards, mice, etc.
Integrated 1D Barcode Option	•					Eliminates need for 2 separate devices—by combining handheld features and battery life with PC performance and o/s
Integrated 2D Barcode Option	•					For added flexibility, the 2D barcode reader can scan 1D or 2D barcodes
Integrated RFID Option	Project Driven					
Integrated Camera and LED Light Option	2MP and light	Standard 0.3 MP no light	Standard 1 MP no light		1 MP no light	Only the U1 has LED lighting to illuminate dark objects; plus, the U1 has more pixels
Integrated Fingerprint Scanner Option	•	Standard	Standard		•	Fingerprint scanner provides added biometric security
Integrated GPS Receiver Option	•					The U1 is the only one that has an integrated GPS receiver for added convenience and durability
Integrated SmartCard Reader Option	•					A SmartCard Reader increases the security of the device

<sup>1</sup>Mobile Broadband Model