







UniOne

Product Specification		V 1.0	
Product Model	UW20		
Appearance			
Main Features	Fully rugged 7 inch tablet		
Physical Characteristics		Remark	
Device Dimension Size	207mm x 138mm x 20.7mm		
Weight	≤ 770g		
Color/Material	PC/GF (Dark Grey)+ Rubber (Black) Magnesium alloy internal frame		
LCD	7.0" IPS 1280*800 550nit (typ)		
Touching Panel	10 points, support wet hands and glove operation, Gorilla Glass 3		
Camera	8M ,FF		
	2M		
Light LED	Back 2*LED illumination		
Extension Ports	1*USB3.0 Type-A		
	1*Type-C,Support USB3.0 / DisplayPort / Power Delivery 20V In		
	1*DC Jack (19V)		
	1*Nano-SIM		
	1*Micro SD Maximum: 256 GB (Support Max 1TB SDXC)		
	1* Kensington Lock		
	bottom Docking connector 35pin Docking pin		
	Back Connector 12pin pogo pin		
Dedicated Keys	RF antenna pass-through 3 (WWAN, GNSS, WLAN)		
	3 Keys (Power, P1, P2)		
Software & Hardware		Remark	
Hardware Platform (CPU)	Intel ApolloLake N3350, 1.1GHz up to 2.4GHz 2 Cores 2 Thread		
Software Platform	Windows® 10 IoT Enterprise SAC 64 bit		
Memory (RAM)	4GB LPDDR4x		
Hard Disk (ROM)	64GB Emmc		Optional: 1, SSD 64GB 2, SSD128GB
Sensor	Acceleration		
	Ambient Light Sensor		
	Gyroscope		
Speaker	10cm no less 98dB at 1kHz		
Mic	Build-in		
Indicator LED	3 LED (Power, Front camera, Battery)		
TPM2.0	Support		
Battery	Volume: 7.6V 4050mAh (30.78wh) support Hot-Swap Indicator LEDs with power display.		
	Work Time : ≥8H(JEITA 2.0) Test conditions need to be confirmed		
	Charging Time : Reaching 95% ≤5h		
Communication		Remark	
GNSS	uBlox NEO-M8N, Support GPS, GLONASS, Galileo, BDS		
WiFi	802.11 a/b/g/n/ac (2.4 & 5GHz)		
Bluetooth	BTV4.2		
NFC	Accessories Support		

Network	<p>Quectel EM12 (Optional)</p> <p>LTE-FDD:B1, B2, B3, B4, B5, B7, B8, B9, B12, B13, B14, B17, B18, B19, B20, B21, B25, B26, B28, B29, B30, B32,B66</p> <p>LTE-TDD:B38, B39, B40, B41</p> <p>WCADMA:B1, B2, B3, B4, B5, B8, B9, B19</p>		
Reliability		Remark	
Working Temperature	-10°C~+55°C		
Storage Temperature	-40°C~+70°C		
Humidity	0-95% RH, non-condensing		
ESD	Contact 8KV, Air 12KV		
Water proof	IP68		
Drop	1.5m to marble		
Certification		Remark	
Regional Certification	CE		
	RCM		
	MIL-STD-810G	Impact test	
		Vibration test	
		Drop test	
	MIL-STD-461F	CE101, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103	
	Rohs		
	REACH		
WEEE			
Battery	UN38.3 \ MSDS \ UL2054 UL1642 \ IEC 62133		
Wall Charger	CUL		
	CE		
	RCM with EESS, EMC and Energy		
Transportation Certification	Air transport certification		
	Sea transport certification		
Optional Accessories for UW20		Image	
Accessories	<p>Office Dock</p> <p>Port: 1*standard RJ-45 , 10M/100M Ethernet 1*VGA 15pin female 1*DC</p>		
	<p>Thick Battery</p> <p>11.1V/3000mAh, 18650 MH1-3S1P-ALH(more glue), 109*72.8*21.4mm</p>		
	<p>Thin Battery</p> <p>Dual cells,109.82*72.8*12.7mm,466889-2S1P-7.6V-4050mAh</p>		
	<p>Battery charger</p> <p>Four batteries can be charged at the same time</p>		
	Handstrap		
	Chest strap		

	Shoulder strap	
Pogo Pin		Image
1	VBUS	5V Power OUT, 1.5A MAX (ON default)
2	VBUS	5V Power OUT, 1.5A MAX (ON default)
3	USB_DM	USB 2.0 bus Data -
4	SSTX_N	USB 3.0 bus Superspeed transmitter differential pair
5	USB_DP	USB 2.0 bus Data +
6	SSTX_P	USB 3.0 bus Superspeed transmitter differential pair
7	GND	Ground PIN
8	GND	Ground PIN
9	GPIO_1	3.3V GPIO 1 (PULL DOWN default)
10	SSRX_N	USB 3.0 bus Superspeed receiver differential pair
11	GPIO_2	3.3V GPIO 2 (PULL DOWN default)
12	SSRX_P	USB 3.0 bus Superspeed receiver differential pair
Docking POGO PIN		Image
1	VSYS(19V Power)	
2	VSYS(19V Power)	
3	GND	
4	VSYS(19V Power)	
5	GND	
6	GND	
7	VSYS(19V Power)	
8	DDI0_TX0_DN(DDI signal with CAP)	
9	USBPWR_ON(5V Signal)	
10	DDI0_TX0_DP(DDI signal with CAP)	
11	USB2_DN_CN	
12	GND	
13	USB2_DP_CN	
14	DDI0_TX1_DN(DDI signal with CAP)	
15	GND	
16	DDI0_TX1_DP(DDI signal with CAP)	
17	USB3_TXP_CN	
18	GND	
19	USB3_TXN_CN	
20	DDI0_TX2_DN(DDI signal with CAP)	
21	GND	
22	DDI0_TX2_DP(DDI signal with CAP)	
23	USB3_RXP_CN	
24	GND	
25	USB3_RXN_CN	
26	DDI0_TX3_DN(DDI signal with CAP)	
27	MB_ADPIN_N	
28	DDI0_TX3_DP(DDI signal with CAP)	
29	MB_BATCHG_N	
30	GND	
31	KB_DET_N	
32	DDI0_SCL_CN	
33	DDI0_HDMI_HPD_CN	
34	DDI0_SDA_CN	
35	V3S_ON(3.3V Signal)	