



12.2" Rugged Tablet Based on Intel®Kabylake M3-6Y30 CPU

Features:

- Windows 10 OS
- Support all standard USB2.0, USB3.0, Type-c connectors
- Support RJ45 internet access, 100M Ethernet and dual frequency WiFi
- Support standard DB9 serial port (RS232, RS485)
- NXP NFC (13.56M), Ublox GPS High precision positioning and 1D/2D scan
- High-strength-glass touch panel with handwriting input function
- 6500mAh removeable wide-temperature battery
- Rugged IP65 protection level



Specification:

Product Outlook			
Type	Details	Standard Configuration	Optional configuration
Product Form	Type	12.2 inch Rugged Tablet (Optional keyboard)	NA
	Dimension	319.6 x 216 x 23.4mm	NA
	Weight	1500g	NA
	Device Color	black + black color (bottom shell black color, front shell black color)	black + silver color (bottom shell silver color, front shell silver color)
LCD	Screen Size	12.2 inch 16: 10	NA
	Resolution	1920 x 1200 IPS Screen	NA
	Brightness	280cd/m ²	optional SLR Sunlight visible film
TP	Touch Panel	10 points Capacitive, G + G, Corning Gorilla Rigidity: above 7H-Anti-scratch, TP thickness: 1.1mm, COF, support handwrite	optional SLR Sunlight visible film
Camera	Front	front 2.0MP	NA
	Rear	rear 5.0MP	NA
Speaker	Built-in	Embedded 8Ω/0.8W waterproof speaker x 2	NA
Mic	Built-in	Sensitivity: -42db, output resistance 2.2kΩ	NA
Battery	Type	Build in Lithium-ion polymer battery/large battery can hot plug replacement	NA
	Capacity	6300mAh/7.4V 1000mAh/7.4V (dual battery)	NA
	Endurance	6hrs(default 50% volumn, default200 lumens brightness play 1080P HD video)	NA

System Hardware Configuration			
Type	Details	Description	Optional configuration
CPU	Type	Intel®Kabylake M3-6Y30	Intel Kabylake Core™ m3-7Y30
	Speed	4M Cache, up to 2.20 GHz	NA
GPU	Type	Intel® HD Graphics 515	NA
RAM	DDR3L	4GB	8GB
ROM	Emmc	NA	NA
SSD	NGFF SSD	128G M.2	128G/256G/512G
G_sensor	Built-in	Gravity acceleration sensor	NA
Network Connections			
Type	Details	Descriptions	Optional configuration
WIFI	WIFI Module	WIFI 802.11(a/b/g/n/ac) Frequency 2.4G + 5.8G dual band WIFI intel 3165D2WG	NA
Bluetooth	Built-in	BT4.2 (BLE) class1 transmission distance: 10m	NA
3G	Built-in	NA	FIBOCOM_H350 GSM/GPRS/EDGE Band(MHz): 900/1800; WCDMA Band(MHz): 900/2100 1.Asia Pacific, Europe 2.China Unicom 3G
4G	Built-in	EC25-EC	NA
GPS	Built-in	U-blox NEO-7 Support: GPS; Capture sensitivity: -160 dBm; Cool Start Time: <50second, Hot start time: <28seconds, frequency: 0.25 Hz~10 MHz (configurable)	NA
NFC	Built-in	NA	NXP NFC 13.56MHz Support ISO/IEC 14443A/14443B/15693/18092/mifare protocol, Card reading distance: 4cm
Data Collection			
Type	Details	Description	Optional configuration
1D	OPTIONAL	NA	MOTO SE655E100R
			optical resolution: 5mil
			SCAN SPEED: 50times/s
			Code support: UPC/EAN, Bookland EAN, UCC Coupon Code, ISSN EAN, Code 128, GS1-128, ISBT 128, Code 39, Trioptic Code 39, Code 32, Code 93, Code 11
2D	OPTIONAL	NA	Honeywell N3680 hard decode
			optical resolution: 5mil
			scan speed: 50 times/s
			Code support: PDF417, MicroPDF417, Data Matrix, Data Matrix Inverse Maxicode, QR Code, MicroQR, QR Inverse, Aztec, Aztec Inverses, Han Xin, Han Xin Inverse
Interface Configuration			
Type	Details	Descriptions	Optional configuration
TF slot	Extensive External	support TF x 1 max: 128G	NA
SIM card slot	3G/4G	SIM card x 1	NA
USB interface	Extensive External Memory and data	USB 2.0 x 2 (4pin) (Host) for windows	NA
		USB 3.0 x 1 (9pin)	NA
Type C interface	USB2.0, charging, AV	Type c x 1	NA
Earphone Jack	Audio Output	ϕ3.5mm standard earphone jack x 1	NA
DC Jack	Power	DC 12V 4A ϕ3.5mm Power connector x 1	NA
HDMI interface	AV Output	HDMI 1.4a x 1	NA
Serial port	serial port	DB9 (RS232) x 1, DB9 (RS485) x 1	NA
RJ45 interface	internet access	10/100Mbps self-adaption x 1	NA
Extensive Slot	pogo Pin	12pin Pogo Pin x 1	NA
Key			
Type	Details	Descriptions	Optional configuration
power	power on/off key	x1	NA
volume	VOL+ VOL-	VOL+ VOL- x 2	NA
F KEY	Barcode scan key	barcode scan (backside of machine) x 1	NA
program	progamming key	customized key function x 2	NA

Standard Accessories			
Type	Details	Description	Optional configuration
handle	handle	handle	NA
Power Adaptor	Standard	AC100V ~ 240V, 50Hz/60Hz output DC 12V/4A, USA Standard CE approval	USA standard
			EU Standard
Software Configuration			
Type	Details	Description	Optional configuration
Operation System	OS version	windows 10 IOT 64bit Default language: English	Windows 10 Pro 64bit/Home 64bit
Product Certificate			
Type	Details	Description	Optional configuration
Certificate System	IP65	IP65 Report (waterproof test: IP-X5, dustproof test: IP-6X) a.nozzle inner diameter: 6.3mm; b.water-carrying capacity: 12.5±0.625L/min; c.water pressure: adjust according to specified water-carrying capacity; d.central part of main water flow: Away from the nozzle 2.5m diameter about 40mm circle; e.water spray time for outter shell per a square meter: about 1min; f. test time: at least 3min; g. distance from nozzle to outter shell surface: 2.5~3m After tested, check sample and no water inside situation	
		CE-NB	Y
		MIL-STD-810G	Y
		Battery	UN38.3, MSDS, IEC62133
Reliability			
Type	Details	Descriptions	
Product Reliability	Drop Height	80cm composite wood floors, in operation status	
	Operate	-10 °C to 50 °C	
	Store	-20 °C to 60 °C	
	Humidity	Humidity: 95% Non-Condensing	

Interfaces:



Charging Dock:



ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9 years' experience, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip, Allwinners and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

