

# Pocket PC -PB01CF

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World's Smallest 4K Pocket PC

## Detailed looks



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## Features



Apollo Lake



Compact Size



4K Ready



HDMI



Watchdog



Schedule  
On/Off



HDMI-CEC  
Remote  
On/Off



RJ45



Dual Band WiFi  
BT 4.1



Micro SD  
Slot

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## Intel Apollo Lake Processor



Apollo Lake

**Intel® Apollo Lake processors provide 30% more performance than current Braswell platform**

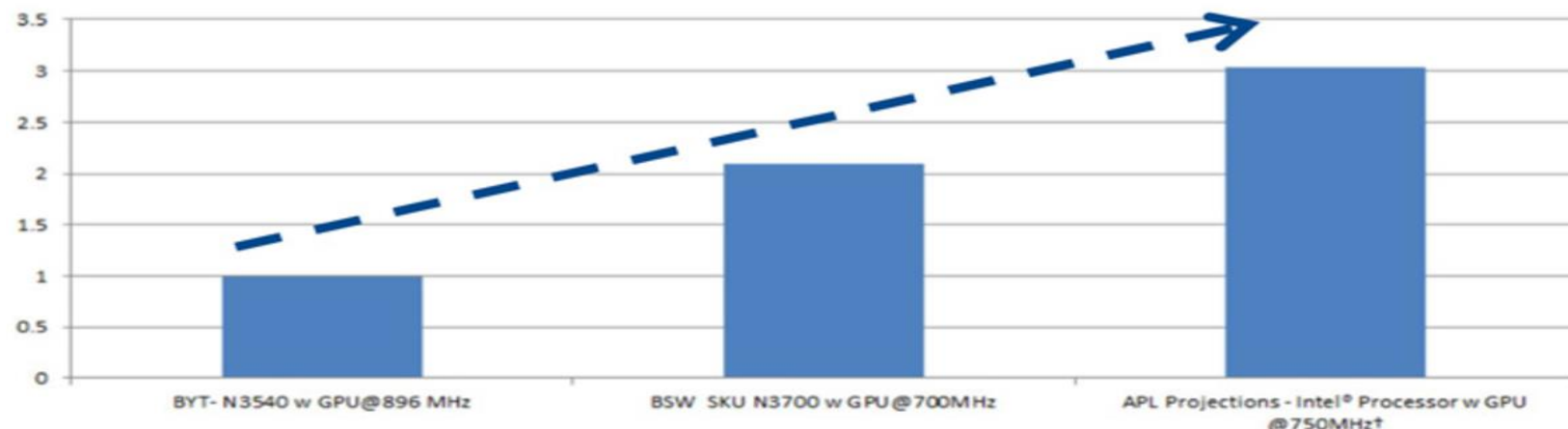
- Higher computing / CPU performance
- Better graphics / GPU performance (Gen9)
- Lower power consumption
- Longer battery life in mobile applications
- Tripple-display support 4K resolution
- Enhanced connectivity



Baytrail

Braswell

Apollo Lake



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## Compact designed, palm-sized PC



Compact Size

## Tiny in size, Big in Performance World's smallest 4K Pocket PC

- Measured only 70 x 70 x 31.4mm, 0.15L
- Compact design especially for limited spaces (Bedroom, living room multimedia center, digital signage etc..)



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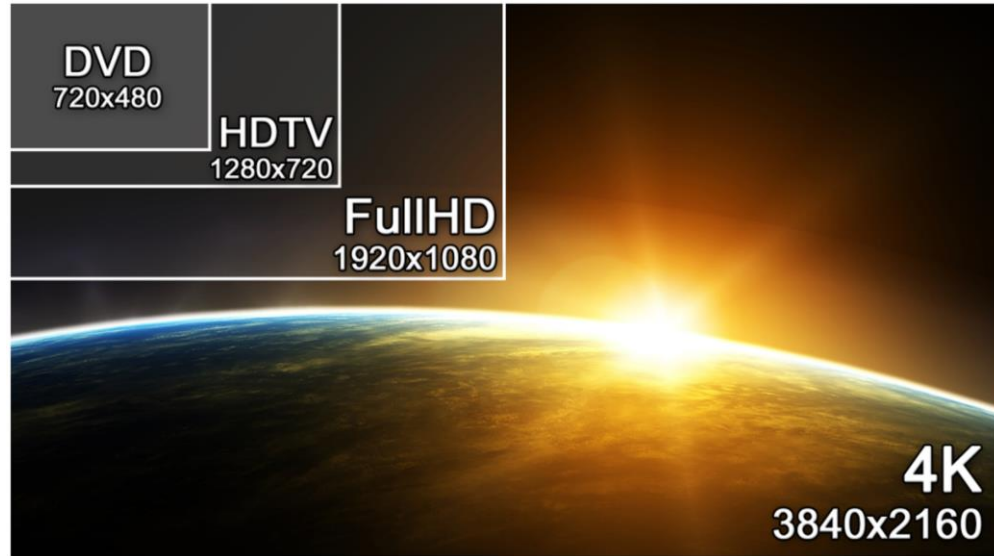
## 4K



4K Ready

**At 3840 x 2160, UHD 4K offers 4X more pixels over FHD 1080P**

- 4K resolution has 2X pixels horizontally & 2X pixels vertically over Full HD 1920 x 1080
- Offering smaller pixels to project higher quality images and video contents



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## HDMI 2.0

Support  
18 Gbps



HDMI 2.0  
18 Gbps

HDMI 1.3  
10.2 Gbps

HDMI 1.0  
4.95 Gbps

SD  
.81 Gbps

## HDMI 1.4 & 2.0



HDMI

**HDMI video output offers higher quality images and video contents**

- HDMI 2.0 optimized for 4K, over 75% more bandwidth over 1.4
- HDMI 2.0 offers 2X more FPS over 1.4, 21:9 ratio support, more video & audio channels, HDMI-CEC function and more...

HDMI ver.	1.4b	2
Max video signal bandwidth ( MHz )	340	600
Max TMDS bandwidth ( Gbit/s )	10.2	18
Max video bandwidth ( Gbit/s )	8.16	14.4
Max audio bandwidth ( Mbit/s )	36.86	49.152
Max color depth ( bit/px )	48	48
24-bit/px HDMI single connector max resolution	4096x2160p 24 Hz	3840x2160p 60 Hz
30-bit/px HDMI single connector max resolution	3840x2160p 30 Hz	3840x2160p 60 Hz
36-bit/px HDMI single connector max resolution	3840x2160p 25 Hz	3840x2160p 50 Hz
48-bit/px HDMI single connector max resolution	3840x2160p 24 Hz	3840x2160p 30 Hz
4K@50/60 Hz	No	Yes
HDMI-CEC function	No	Yes
Dual outputs	No	Yes
4 audio streams	1 audio stream only	Yes
32 audio channels	8 audio channels only	Yes
1536 kHz audio sampling	No	Yes
21:9 wide screen support	No	Yes
Dynamic auto sound/picture sync	No	Yes

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## Monitoring & Control



Watchdog

### Watchdog – System monitoring & auto restart when errors detected

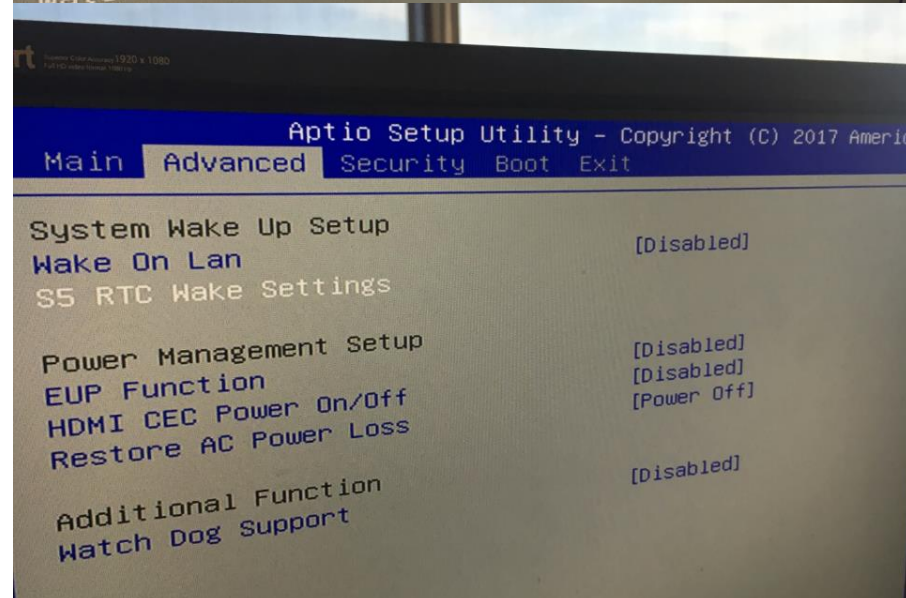
- Designed to “watch” applications to ensure they are actively running
- If an application shuts down abnormally or crashes, Watchdog can restart the application and restore normal operation



Schedule On/Off

### RTC – Schedule system on time

- Allowing users to set S5 RTC wake settings, which means user can schedule system on time using fixed time or dynamic time specifically





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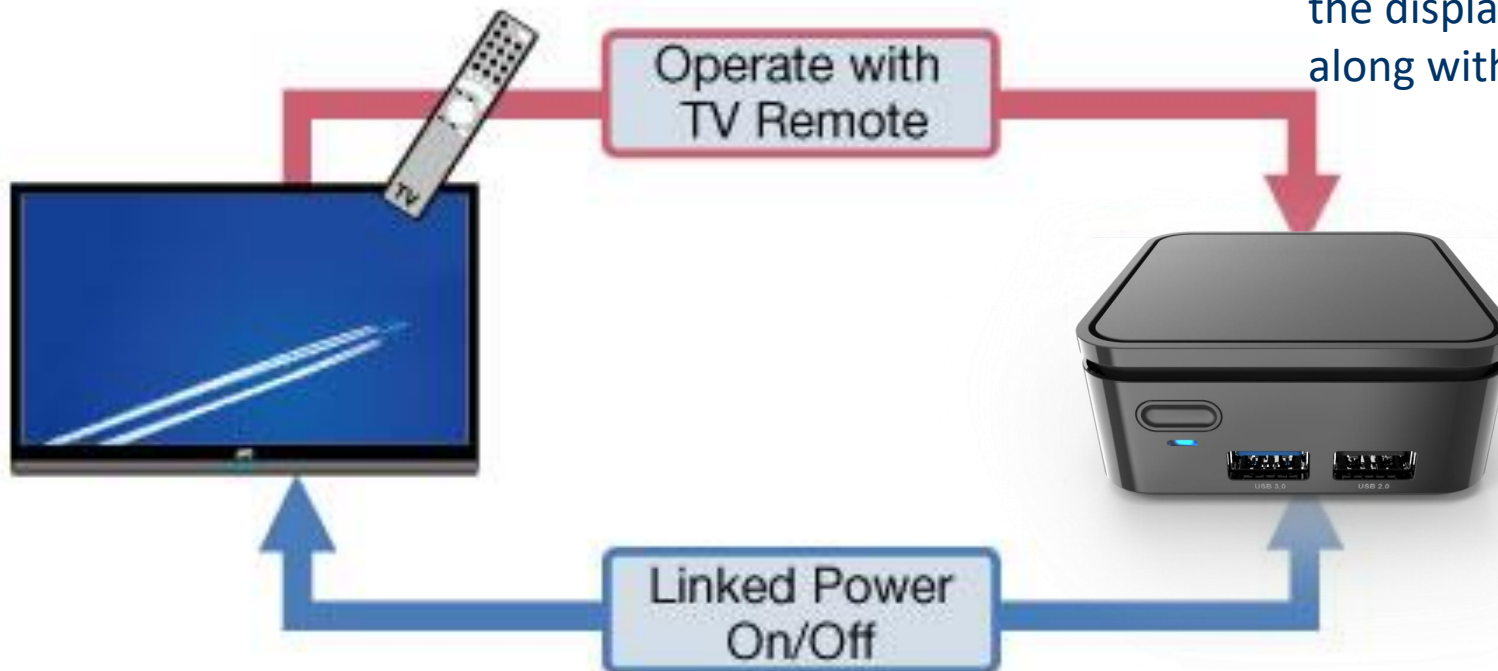
## HDMI-CEC function



HDMI-CEC  
Remote  
On/Off

### HDMI-CEC – Remotely switch on/off your system via HDMI using your display remote

- Feature of HDMI designed to allow users to control devices connected to display via HDMI connection
- By using the remote of the display (TV), when user switch on the display, connected devices (Pocket PC) will be turned on along with the display



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## Dual band wireless, BT & Ethernet Connection



RJ45

### Supports RJ45 Ethernet connection for more reliable and faster internet connection

- Offers 13%+ faster speeds over wireless
  - (802.11ac = 866.7MB/s VS Cat5e = 1Gb/s)
- More reliable connection over WiFi as data travels via cable, WiFi is subject to many more interferences (objects, wall and other electrical devices)



Dual Band WiFi  
BT 4.1

### Featuring dual band wireless IEE 802.11 (ac/b/g/n) & Bluetooth 4.1

- Dual band Wi Fi picks up 2.4GHz + 5GHz signals
  - X8 more channels than single band 2.4GHz
  - Cleaner bandwidth offers lower packet lost & delays
- Bluetooth 4.0 VS 4.1
  - Same transfer speed at 25MB/s
  - 50% more connectivity distance (50m vs 100m)
  - Further optimized on BLE (Bluetooth Low Energy)

Wireless B vs G vs N vs AC - Technical Comparison

STANDARD	FREQUENCY	SPEED
B	2.4GHz	11mbps
G	2.4GHz	54mbps
N	2.4GHz & 5GHz	600mbps
AC	5GHz	1750mbps

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## Micro SD Slot & OS Support



Micro SD Slot

**Micro SD Slot offers additional capability & storage expansion up to 128GB**

- Supports up to 128GB Micro SD cards



Win 10

**Supports Windows 10 Home Operating System & other OS**

- Windows 10 HOME 64 bit
  - Offering best support for SW/HW integration
- Ubuntu 16.04 64 bit(BIOS support)
- Windows 10 IoT Core(Driver's info)



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## VESA Mount kit

**VESA mount kit allows easy fix to your digital signage, LCD monitors & HD/4K TVs!**

- Compatible with VESA standard to fit up to 32" sized displays. (75mm & 100mm),



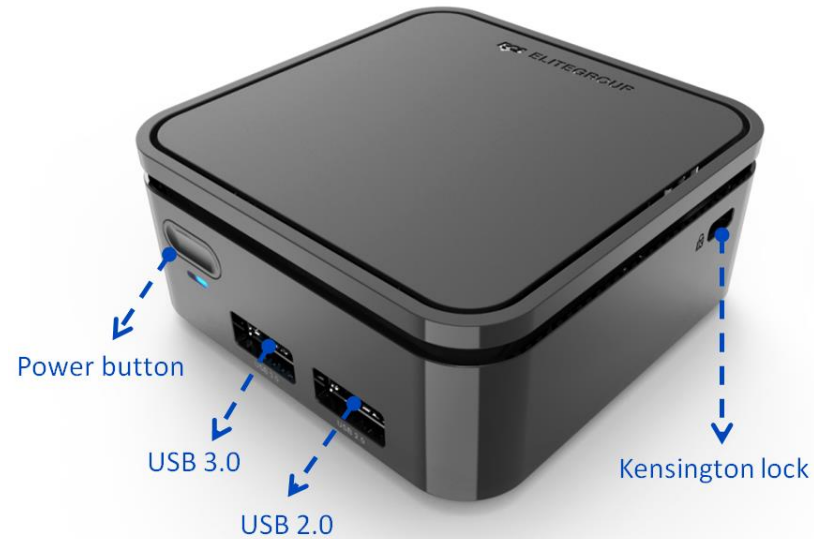
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## Full Hardware Specs & Ports

### Specifications

CPU	Intel Apollo Lake N3350 / N4200
Graphic	Intel HD Graphics
MEMORY	LPDDR4 2GB / 4GB
STORAGE	EMMC 5.0 32GB / 64GB Micro SD slot x 1 [ Max 128GB]
WIFI	LITE-ON WCBN3507A IEEE 802.11 ac/b/g/n
LAN	1 x RJ45, Gigabit
I/O	1 x USB 3.0, 1 x USB2.0, 1 x HDMI
Weight	260 g
Operation Temp.	0°C to 35°C (32°F to 95°F)
Storage temperature	-10°C to 50°C (14°F to 122°F)
Power Adapter	12V / 2A
Certification	EMC: FCC/CE/BSMI/VCCI/C-Tick Safety: CB & BSMI



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## 5 Available SKUs



	ND2110	ND2116	ND2117	ND2115	ND2118
CPU	N3350				N4200
RAM	2GB		4GB		
Storage	32GB			64GB	32GB
HDMI	1.4b (4K@30FPS)	2.0 (4K@60FPS)	1.4b (4K@30FPS)	2.0 (4K@60FPS)	
I/O	USB 3.0 x1, USB 2.0 x1, RJ45 x1				
WIFI	802.11(ac/b/g/n)				
LAN	Gigabit Ethernet x1				
Size	70mm x 70mm x 31.4mm				
Contents	Power adapter x1, VESA mount x1, Screws x1, Quick guide x1				

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## Product usage recommendations

Personal			Business / Corporate		
<ul style="list-style-type: none"> <li>• Home entertainment systems for web browsing</li> <li>• Living room Multi-media centers for music and movies</li> <li>• Personal desktop in bedroom for basic work processing</li> </ul>			<ul style="list-style-type: none"> <li>• Digital signage in retail stores</li> <li>• Schools &amp; Education centers</li> <li>• Public transport (airports, train stations)</li> </ul>		
	ND2110	ND2116	ND2117	ND2115	ND2118
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**Thank you!**