



# Workabout Pro 4

## EMC Configuration and Accessories Guide

*Designed to assist customers and partners with model and configuration guidance*

*\*January 2018*



## List of changes

### Version Update (January 2018)

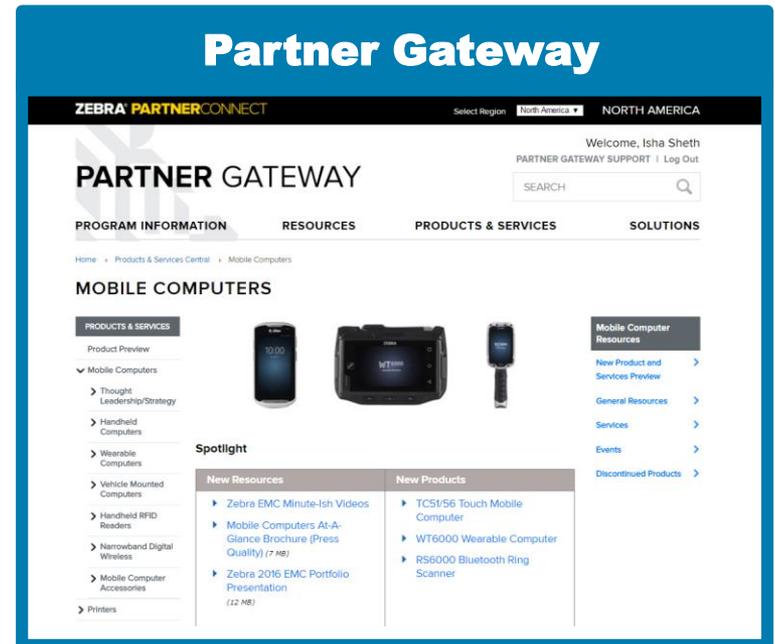
1. Slide 11: Added UHF+WAN+CE6.0 limitation to RFID matrix
2. Slide 18: Removed WA4005-G1 announced EOS in March'17

## Workabout Pro 4

CONFIGURATION & ACCESSORY GUIDES are available on [The Source](#) and [Partner Portal](#)

- Also see [www.zebra.com/workaboutpro4](http://www.zebra.com/workaboutpro4) and the WAP-4 Configuration and Accessories Guide
- WAP4/XT15 Positioning Strategy Webinar & presentation with use-case driven approach  
[Partner Central](#)

Find Product Information in the **EMC Product Portfolio** on [The Source](#) and [PartnerPortal](#)



- WAP-4 Third party accessories:
  - [www.Portsmouth.com](http://www.Portsmouth.com)

# WAP4 Configuration Matrix

CONFIGURATION OPTIONS:	WA4xx	OPTION	DESCRIPTION
<b>Form Factor and Keyboard</b>	WA4Lxxxxxxxxxx	L	Long Version - Alphanumeric Keyboard
	WA4Sxxxxxxxxxx	S	Short Version - Numeric Keyboard
	WA4Qxxxxxxxxxx	Q	Short Version - QWERTY Keyboard
<b>Operating System</b>	WA4x1xxxxxxxxxx	1	Microsoft Windows Compact Embedded 6.0
	WA4x2xxxxxxxxxx	2	Microsoft Windows Mobile Handheld 6.5.3
<b>Local Language</b>	WA4xx1xxxxxxxxxx	1	English
	WA4xx2xxxxxxxxxx	2	French
<b>Terminal Emulation</b>	WA4xxx0xxxxxxxxxx	0	None
<b>End-cap Options</b>	WA4xxx0xxxxxxxxxx	0	None
	WA4xxx1xxxxxxxxxx	1	SE965 Standard 1D Laser End cap
	WA4xxx2xxxxxxxxxx	2	SE655 1D Linear Imager End cap
	WA4xxx3xxxxxxxxxx	3	SE4500 2D Imager End cap
	WA4xxx4xxxxxxxxxx	4	Headset Jack 2.5mm
	WA4xxx5xxxxxxxxxx	5	RFIDUHF Linear Antenna FCC/IC Countries
	WA4xxx6xxxxxxxxxx	6	RFID UHF Linear Antenna CE Countries
	WA4xxx9xxxxxxxxxx	9	RFID HF CE/FCC/IC Country
	WA4xxxAXxxxxxxxxxx	A	SE1524 1D Extended Range Laser
	WA4xxxEXxxxxxxxxxx	E	RFID LF CE/FCC/IC Countries
<b>Back Cover Options</b>	WA4xxxx0xxxxxxxxxx	0	Blank Back Cover
	WA4xxxx1xxxxxxxxxx	1	SE965 1D Laser Slim Pod
	WA4xxxx2xxxxxxxxxx	2	SE655 1D Imager Slim Pod
	WA4xxxx3xxxxxxxxxx	3	SE4500 2D Imager Slim Pod
	WA4x2xxx4xxxxxxxxxx	4	8 MP Camera Back Cover
	WA4xxxx5xxxxxxxxxx	5	RFIDUHF Circular Antenna, FCC/IC Countries Back Cover
	WA4xxxx6xxxxxxxxxx	6	RFID UHF Circular Antenna, CE Countries Back Cover
<b>Radio Options</b>	WA4xxxxx1xxxxxxxxxx	1	802.11 a/b/g/n, No Diversity, BT2.0+EDR
	WA4xxxxx2xxxxxxxxxx	2	802.11 a/b/g/n, Diversity, BT 3 +WBA + HFP, GPS, No Stylus
	WA4xxxxx4xxxxxxxxxx	4	802.11 a/b/g/n, Diversity, BT 3 +WBA + HFP, GPS, UMTS/HSPA+, CE Cntry, No Stylus
	WA4xxxxx5xxxxxxxxxx	5	802.11 a/b/g/n, Diversity, BT 3 +WBA + HFP, GPS, UMTS/HSPA+, FC/IC Country
	WA4xxxxxxx0xxx	0	No Pistol, No Strap
<b>Pistol Grip / Hand Strap</b>	WA4xxxxxxx1xxx	1	Pistol Grip, No Strap
	WA4xxxxxxx2xxx	2	No Pistol, Double Loop Handstrap
<b>Battery</b>	WA4xxxxxxx2xx	2	4400mAh
<b>Country or Custom Code</b>	WA4xxxxxxxxxxxC	C	China
	WA4xxxxxxxxxxxW	W	Worldwide less China

## Configuration Exceptions List

OS	End Cap	Back Cover	Radio	Pistol Grip	Compatible	Explanation
Win CE		Camera			No	Win CE not a multi-media OS; choose WEHH instead
	Lorax (WA9022)		WWAN or Wifi Diversity & GPS		No	Lorax module is big. WWAN modem requires an auxiliary antenna which sticks out of the housing, so Lorax module and these radios cannot co-exist
	Lorax (WA9022)	Camera, RFID UHF Circular			No	Lorax requires trigger board in Back cover so other back covers are not compatible
		RFID UHF Circular Antenna		Pistol Grip	No	Pistol grip will obstruct circular antenna
	RFID Endcap or	RFID Backcover	WAN		Yes	All RFID options (end cap or back cover) are compatible with WAN radio
		Camera		Pistol Grip	No	Pistol grip will obstruct camera opening
	Stylus		WWAN or WiFi Diversity & GPS		No	Stylus occupies WWAN and WiFi diversity antenna slot

## Workabout Pro 4 Main Variants



### Workabout Pro 4

#### Workabout Pro 4 Long - Alpha Numeric Keyboard

- Windows CE 6.0
- Windows Embedded Hand Held 6.5

#### Workabout Pro 4 Short – Numeric Keyboard Workabout Pro 4 Short – Qwerty Keyboard

- Windows CE 6.0
- Windows Embedded Hand Held 6.5

# WAP4 Operating System Options



Microsoft Windows Embedded Handheld 6.5 Classic Edition

Microsoft Windows Embedded Compact 6.0



## Operating System Configurations

### Microsoft Windows

Embedded Handheld 6.5 Classic Edition

### Microsoft Windows

Embedded Compact 6.0



OS in Local languages available for download on the Support Portal: <https://www.zebra.com/us/en/support-downloads/mobile-computers/handheld/workabout-pro-4.html>

## WAP4 Radio Options



### Built-in Radios

802.11 A/B/G/N, **No Diversity** Antenna with Bluetooth 3.0 + WBA + HFP1.6

802.11 A/B/G/N, **Diversity** Antenna with Bluetooth 3.0 + WBA + HFP1.6, **GPS** and No Stylus

802.11 A/B/G/N, Diversity Antenna with Bluetooth 3.0 + WBA + HFP1.6, **GPS, UMTS / HSPA+, CE Countries and No Stylus**

802.11 A/B/G/N, Diversity Antenna with Bluetooth 3.0 + WBA + HFP1.6, **GPS, UMTS / HSPA+, FCC / IC Countries and No Stylus**

*Applicable only for Upgrades / Reconfiguration*

### Radio Modules

**RA3051** HSPA+ WAN expansion module, compatible with Short and Long configurations, end-cap of choice is ordered separately.

**RA3052** Diversity Wi-Fi / Stand alone GPS antenna module, compatible with Short and Long configurations, end-cap of choice is ordered separately.

Installation instructions for Radio Modules:

<http://www.ingenuityworking.com/knowledge/w/knowledgebase/1525.workabout-pro4-product-manuals.aspx>

## WAP4 End-cap Options

Choose end cap for **best ergonomic solution!**

### Data Capture End-Caps

<b>WA9022</b>	SE1524ER 1D Lorax extended range laser
<b>WA9016</b>	SE965 1D Standard range laser
<b>WA9018</b>	SE655 1D Linear imager
<b>WA9020</b>	SE4500 2D Imager

OR

### Other End-Caps

<b>WA6212</b>	WAN/GPS/Wi-Fi diversity end-cap
<b>WA6213</b>	Multi-purpose end cap
<b>WA6215</b>	Headset adapter end-cap
<b>WA6214</b>	Standard blank end-cap, with stylus

### Optional pistol grip

#### WA6103

Pistol grip attachment kit. Includes flush mount pistol grip with trigger, and screws

**WA6103**  
Pistol Grip



### Applicable only for Upgrades / Reconfiguration



When using WA9022 Lorax Laser end-cap with or without pistol grip, a trigger board WA9301 is required as back cover, so camera (located in back cover) is not compatible. WAN upgrade is not compatible with Lorax End cap

For all other end-cap engines, a trigger board WA9302 is required **ONLY** when using the pistol grip.



**WA9022**  
1D Lorax Laser



**WA9016**  
1D Standard Range Laser



**WA9018**  
1D Linear Imager



**WA6213**  
Multi-purpose end cap



**WA9020**  
2D Imager

All end-cap scanners and pistol grip are compatible with short and long configurations



Order 1020289 – Pistol grip switch cover when removing the pistol grip & switching to Brick mode

## WAP4 RFID End Caps/Back Covers

### Ultra High Frequency (UHF)

- WA9901** Linear antenna, FCC / IC country certified end cap
- WA9902** Linear antenna, CE Country certified end cap
- WA9903** Circular antenna, FCC / IC Country certified back cover
- WA9904** Circular antenna, CE Country certified back cover

Both UHF antenna modules are compatible with scanners, pod scanner for linear variant and end cap scanner for circular RFID variant. All circular UHF antenna modules are installed to the WAP4 units as back-covers



! Linear antenna is sensitive to tag orientation, circular antenna is not.

### High (HF) and Low Frequency (LF) End Caps

- WA9905** HF module, FCC/IC, CE country certified end cap
- WA9906** LF module, FCC/IC, CE country certified end cap



All RFID options are compatible with or without a WAN radio. Before choosing any combination, review the local country approval list. !

## WAP4 RFID Compatibility Matrix

RFID Products	Slot / Plastic extension	Imager & Laser Pod Options	Imager & Laser End Cap Options	Camera	WIFI Option	UMTS Option	GPS Option	Pistol grip	Hand strap
RFID Module UHF- Linear antenna America variant WA9901	XMOD Slot / Multipurpose End Cap	All except Lorax engine				Toggle mode			
RFID Module UHF- Linear antenna Europe variant WA9902	XMOD Slot / Multipurpose End Cap	All except Lorax engine				Toggle mode <b>In CE 6 OS</b>			
RFID Module UHF- Circular antenna America variant WA9903	XMOD Slot / Expanded Back Cover		All except Lorax engine			Toggle mode			Only P/N 1009144
RFID Module UHF- Circular antenna Europe variant WA9904	XMOD Slot / Expanded Back Cover		All except Lorax engine			Toggle mode <b>In CE 6 OS</b>			Only P/N 1009144
RFID Module HF WA9905	USB End Cap / Multipurpose End Cap	All except Lorax engine							
RFID Module LF-AH1-G2 WA9906	USB End Cap / Multipurpose End Cap	All except Lorax engine							

### Legend

Provided in the kit
Available
Not provided in the kit
Limited
Not available

Table extracted from the WAP RFID guide.

# WAP4 Trigger Boards

## Trigger Boards

**WA9301** Trigger board for SE1524-ER, 1D Lorax extended range laser end-cap.

**WA9302** Trigger board for 1D standard range laser or 1D/2D imager end-cap

### Additional pistol grip

**WA6103** Pistol grip attachment kit. Includes flush mount pistol grip with trigger, and screws



**WA6103**  
Pistol Grip



Order 1020289 – Pistol grip switch cover when removing the pistol grip & switching to Brick mode

**Applicable only for  
Upgrades / Reconfiguration**



Trigger board WA9301 is always required when using WA9022 Lorax laser end-cap with or without pistol grip

Trigger board WA9302 is required for 1D laser or 1D/2D imager **ONLY** when using the pistol grip



**Trigger Board Back Cover**



**Inside Back Cover**

#### **WA9301**

Trigger Board for Lorax Laser End-Cap

#### **WA9302**

Trigger Board for 1D Laser or 1D/2D Imager End-Cap



All trigger boards are compatible with short and long configurations

## WAP4 Back Cover Options

Choose slim pod scan engine if you need additional technology in end cap (e.g., RFID LF, HF, UHF Linear, Head Set Jack, etc.)

### Back Covers

- WA6216** Standard blank back-cover
- WA9021** 8.0 megapixel camera module (not available for Lorax End cap and Win CE OS)

OR

### Slim Pod Engines

- WA9017** SE655 1D Linear imager
- WA9019** SE4500 2D Imager
- WA9015** SE965 1D Standard range laser



### Optional pistol grip

#### WA6003

Pistol grip attachment for slim pod  
Slim pods with pistol grip increases terminal's Z dimension

**Applicable only for  
Upgrades / Reconfiguration**



**WA9021**  
8MP Camera Module



**WA6208**  
Standard Blank Back-Cover



**WA9015**  
1D Standard range laser



**WA9019**  
2D Imager



**WA9017**  
1D Linear Imager



All covers, slim pods and pistol grip are compatible with short and long configurations

Slim pods have built in trigger boards



## WAP4 Battery Options

If you're changing battery types, a battery door is required when purchasing Super High Cap batteries 

### Extended Battery



**WA3026**  
4680 mAh

 Replacement for  
WA3010 (4400  
mAh) EOL

### Compatible battery doors:



**WA3017-G2**

Battery door for **long** configurations



**WA3018-G2**

Battery door for **short** configurations

### Spare WAP3 Battery



**WA3025**  
2850 mAh

 Replacement for  
WA3006 (3300  
mAh) EOL

### Compatible battery doors:



**WA3015-G2**

Battery door for **long** configurations



**WA3016-G2**

Battery door for **short** configurations

## WAP4 Charging Methods



! The single slot cradle is compatible with the pistol grip, charges a spare battery and has USB master and slave connections.

! The single slot cradle includes a power supply PWR-WUA5V15W0WW Or PWR-WUA5V15W0AR for Argentina with country adapters and a USB cable.



### Single Slot Cradle:

**WA4003-G3** Single Slot Docking Station, USB (**Includes** Power Supply PWR-WUA5V15W0WW, country adapters including China and USB Cable)

**WA4003-AR** Single Slot Docking Station Desktop for Argentina (**Includes** Power Supply PWR-WUA5V15W0AR, country adapter and USB Cable)

### Additional Adapters



**WA4015-G1**

USB to RS232 adapter

## WAP4 Charging Methods



### Four Slot Cradle:

**WA4204-G3** Quad Docking Station, Ethernet for Long Config (**Includes** Power Supply PWR-BGA12V50W0WW, DC Cable CBL-DC-388A1-01) **Requires:** Country Specific Grounded AC Line Cord separately

**WA4304-G3** Quad Docking Station, Ethernet for Short Config (**Includes** Power Supply PWR-BGA12V50W0WW, DC Cable CBL-DC-388A1-01) **Requires:** Country Specific Grounded AC Line Cord separately

### Additional accessories for four slot cradle



#### PWR-BGA12V50W0WW

Level VI AC/DC Power Supply (Brick) AC Input: 100-240V, 2.4A  
DC Output: 12V, 4.16A, 50W

**Requires:** DC line cord and Country specific grounded AC line cord.

#### CBL-DC-388A1-01



DC Line Cord for running the four slot cradles from a single Level VI power supply PWR-BGA12V50W0WW.

 Please order PS1057-G1 as a replacement power supply for WA4204-G2 / WA4304-G2 quad docking stations.

## WAP4 Charging Methods



### Four Slot Battery Charger:

**WA3004-G1** Four slot battery charger to be used with high and ultra high capacity batteries. **Includes** power supply (PS1055-G1). Must order AC line cord separately.

## Additional Accessories



### PS1055-G1

AC Adapter 110-240V for WA3004-G1 quad Charger - no lead

AC Line Cord	Description AC Line Cord	Associated Country
23844-00-00R	AC line cord, 7.5 feet long, grounded, three wire. Associated Country: US	US
50-16000-217R	AC Line Cord, 1.9M, grounded, three wire, AS 3112 plug. Associated Country: Australia, New Guinea	AU, PNG
50-16000-218R	AC Line Cord, 1.8M, grounded, three wire, NEMA 1-15P plug. Associated Country: Japan	JP
50-16000-219R	AC Line Cord, 1.8M, three wire, grounded BS1363 plug. Associated Countries: Hong Kong, Iraq, Malaysia, Singapore, United Kingdom	HK, IRQ, MYS, SGP, UK
50-16000-220R	AC Line Cord, 1.8M, grounded, three wire CEE 7/7plug. Associated Countries: Europe, Abu Dhabi, Bolivia, Dubai, Egypt, Iran, Korea, Russia, Vietnam	EU, ARE, BOL, ARE, EGY, IRN, KOR, RUS, VNM
50-16000-256R	AC Line Cord, 1.8M, grounded, three wire, CEE7/7 plug. Associated Country: Korea	KOR
50-16000-257R	AC Line Cord, 1.8M, grounded, three wire, IEC 60320 C13 plug. Associated Country: China	CHN
50-16000-669R	AC Line Cord, 1.9 M grounded, three wire, BS 546 Plug. Associated Country: India	IND
50-16000-671R	AC Line Cord, 1.8M grounded, CIE 23-16 plug. Associated Country: Italy	ITA
50-16000-672R	AC Line Cord, 1.9M grounded, three wire, S132 Plug. Associated Country: Israel	ISR
50-16000-727R	AC Line Cord, 1.9M grounded, three wire. Associated Country: Brazil	BRA

## WAP4 Charging Methods

### Vehicle cradle:

#### WA1210-G2

Vehicle cradle 12V, for use with **long** configurations

#### WA1310-G2

Vehicle cradle 12V, for use with **short** configurations



### Vehicle charge cable:

#### RV3050

Vehicle charge cable, allows to charge directly any long or short configurations.



! When using the vehicle cradle, the universal RAM mount is required (Order separately WA4006)



CA3002



CA1210

For powered connection, must order a power cable 9-20V input (CA1210) or the vehicle power outlet adapter cable (CA3002) !

## Optional Accessories



#### PS1350

Pre-regulator module required when connecting the vehicle cradle to power sources above 20V to a maximum of 72V.



#### ST6054 / ST6052 (with rubber boot)

Forklift Holster compatible with WAP4

## WAP4 Carrying Accessories

### Holsters

**WA6083** Soft Holster and Belt for use with all short and long configurations when using the pistol grip. Includes belt, tether (pistol grip to holster) and leg strap.

**WA6084** Nylon Pouch for use with all short and long configurations when using the pistol grip. The nylon pouch is not approved in FCC countries.

### Carry Cases

**WA6080** Standard carry case, for use with **long** configurations. Includes belt clip.

**WA6180** Standard Carry Case, for use with **short** configurations. Includes belt clip.

**WA6081** Carry case (open ended), for use with **long** configurations while using end cap scanners and most RFID options.

**WA6181** Carry case (open ended), for use with **short** configurations while using end cap scanners and most RFID options.

\* Note: Carry cases are not approved in FCC countries

### Optional shoulder strap for carry cases

**CV6021**  
Shoulder strap for use with all carry cases.



## WAP4 Carrying Accessories

### Rubber Boots

**WA6400** Rubber boot for use with **long LAN** configurations with/without using scanner pods/pistol grip

**WA6402** Rubber boot for use with **long extended range laser** configuration with/without using pistol grip



WA6400  
Rubber Boot



WA6402  
Rubber Boot for Long  
Extended Range Laser

### Optional shoulder strap for rubber boots

**CV6021** Shoulder strap for use with all rubber boots



## WAP4 Carrying Accessories

### Hand Straps

**WA6025** Hand strap with mobile stylus (double loop) for **long** configurations

**WA6125** Hand strap with stylus (double loop) for **short** configurations

Hand Straps include a tethered stylus !

### Miscellaneous

**WA6100-G1** Replacement end cap stylus (pack of 5)

**WA6310-G1** Mobile stylus with holder kit, includes stylus, tether and holder

**WA6113** Screen Protector (pack of 3)



**WA6025**  
Hand Strap with Mobile Stylus



**WA6310-G1**  
Mobile Stylus with Holder Kit

## WAP4 Optional Tether Adapters

### Tether Open-Ended Cable



#### CA2950-G1

Open ended cable with strain relief (150mm/ 6ft)

### Tether to Dsub9 Cable



#### WA4020-G2

It provides RS232 connectivity (Dsub9 connector) to any short and long configurations through the tether port.

### Tether to USB A Cable



#### WA1002

It provides USB A connectivity to any short and long configs through the tether port. Supports USB peripherals. Not used for active sync.

### USB to Ethernet Adapter (3<sup>rd</sup> party)



#### PSA1U1E

USB to Ethernet adapter with no separate power supply requirement.

WAP-4 Third party accessories:

[www.Portsmith.com](http://www.Portsmith.com)