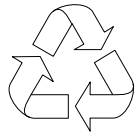
Acer Aspire 3935
Notebook Computer Service Guide



100% Recycled Paper

Service guide files and updates are available on the Acer/CSD web site; for more information, go to http://csd.acer.com.tw

PRINTED IN TAIWAN

Component	Description
Buttons with LED indicator	• Power (white) • Volume adjust (blue) • Volume mute (blue) • WWAN (green) • WLAN (orange) • Bluetooth (blue) • Backup (blue) • PowerSmart (green) • Touchpad (orange)

Software

Aspect	Description
Operating system support	Microsoft Genuine Windows Vista
System utilities	• Phoenix SecureCore Setup Utility - for configuring the system hardware and related function. Go to page 75 for more information • Acer Backup Management
Power management	• ACPI 3.0 (Advanced Configuration Power Interface) standard • Energy Star-compliant

Ergonomics and Security

Aspect	Description
Ergonomics	• Spill-resistant keyboard and touchpad • Status LED indicators allows constant monitoring of basic system functions • Function control keys allows convenient control of various system operations • User-programmable launch button for priority applications • DIY HDD and memory upgrade options • High-capacity, rechargeable battery pack • ACPI-compliant power management system
Security	• Acer Bio-Protection fingerprint solution • BIOS-based user, supervisor, and HDD passwords • Kensington lock

Environmental Requirements

Aspect	Description
Operating temperature	5 to 35 °C (41 to 95 °F)
Operating humidity	20% to 80% RH non-condensing

120-GB HDD

Item	Specification	
Product	Samsung Spinpoint N3C	Toshiba MKxx29GSG Series
Model	HS12VJF	MK1229GSG
Interface	SATA 1.5	
Form factor	1.8 inch	
Sector size (bytes)	512	512
Rotational speed (RPM)	5400	5400

160-GB HDD

Item	Specification				
Product	Samsung Spinpoint N3C	Toshiba MKxx29GSG Series	HGST Travelstar 5K320	Seagate Momentus 5400.5	WD Scorpio Blue
Model	HS16VJF	MK1629GSG	HTS543216L9A300	ST9160310AS	WD1600BEVT
Interface	SATA 1.5		SATA 3.0		
Form factor	1.8 inch		2.5-inch		
Sector size (bytes)	512				
Rotational speed (RPM)	5400				

250-GB HDD

Item	Specification			
Product	Toshiba MKxx29GSG Series	Hitachi Travelstar 5K500.B	Seagate Momentus 5400.6	WD Scorpio Blue
Model	MK2529GSG	HTS545025B9A300	ST9250315AS	WD2500BEVT
Interface	SATA 1.5	SATA 3.0		
Form factor	1.8 inch	2.5 inch		
Sector size (bytes)	512			
Rotational speed (RPM)	5400			

320-GB HDD

Item	Specification			
Product	Hitachi Travelstar 5K500.B	Seagate Momentus 5400.5	Toshiba MKxx55GSX	WD Scorpio Blue
Model	HTS545032B9A300	ST9320320AS	MK3255GSX	WD3200BEVT
Form factor	2.5 inch			
Interface	SATA 3.0			
Sector size (bytes)	512			
Rotational speed (RPM)	5400			

Setting a system password

Note the following before you define a system password:

- The maximum length of password contains 8 alphanumeric characters—A - Z, 0 - 9, and ‘;’ (for French keyboard).
- System passwords are case-insensitive.
- When you are prompted to enter a password, you have three tries before the system halts. Do not forget your password. If you forget your password, you may have to return your computer to your dealer to reset it.

To set a system password:

1. Select a password parameter, then press **Enter**.

   The password box appears.

2. Type a password then press **Enter**.

IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen. Only shaded blocks representing each typed character are visible.

3. Retype the password to verify the first entry, then press **Enter**.

   You will be prompted to save the new password.

4. Press **Enter**.
5. Press **F10** to save the password and close the Setup Utility.

To change a system password:

1. Select a password parameter, then press **Enter**.

   The password box appears.

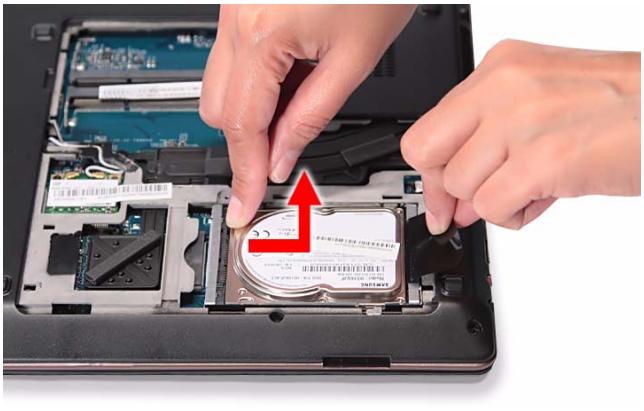
2. Type the original password, then press **Enter**.
3. Type a new password, then press **Enter**.

Removing the Hard Disk Drive

1. Perform the “Removing the Lower Case Cover” procedure on page 31.
2. Remove the screw securing the HDD bracket.

Type	Quantity	Color	Torque	Part Number
M2.5 x L5	1	Black	3.0 kgf-cm	86.00F87.735

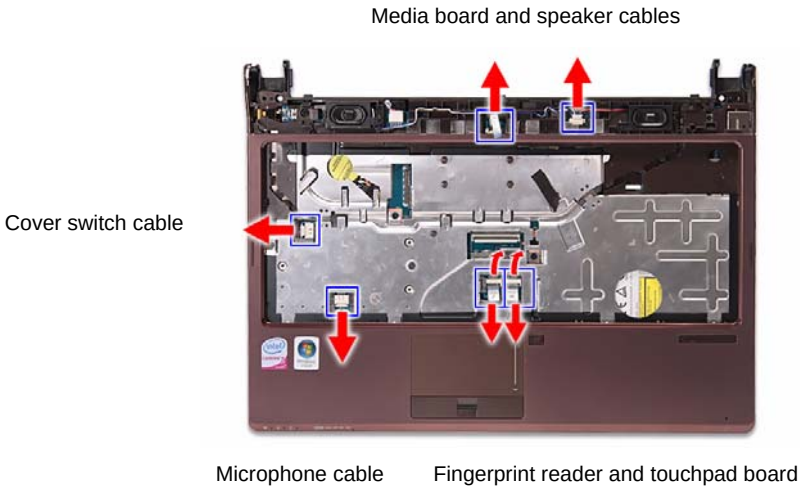
3. Grasp the black mylar tab and use it to slide the HDD assembly from its connector, and then remove the HDD assembly from its compartment.



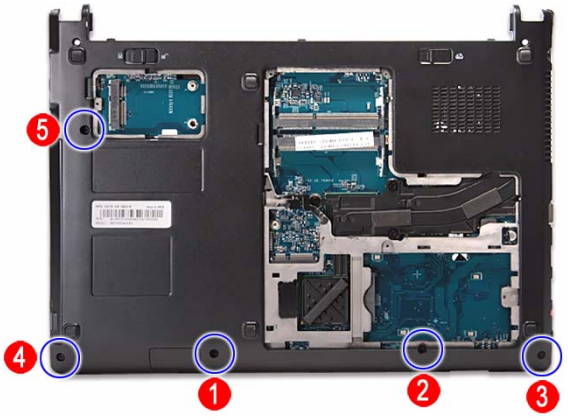
4. Remove the HDD module from its bracket.

Removing the Upper Case

1. Perform the “Removing the LCD Module” procedure on page 40.
2. Disconnect the following system cables from their mainboard connectors.

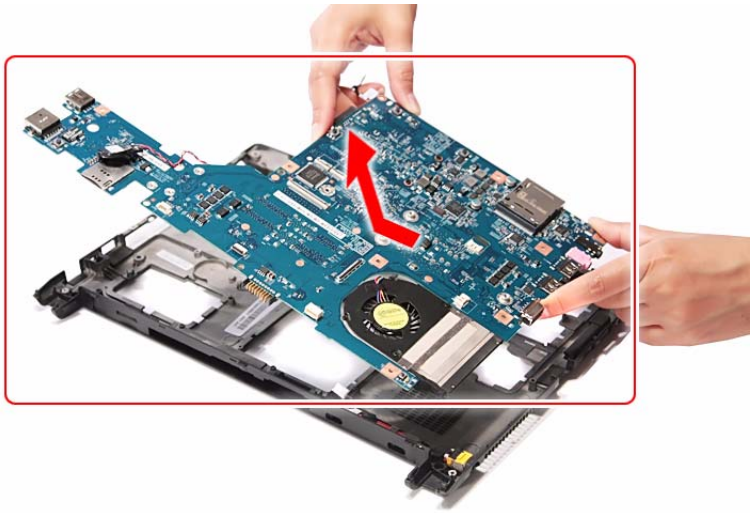


3. Turn the unit over to the base side.
4. Remove the bottom screws securing the upper case to the lower case.



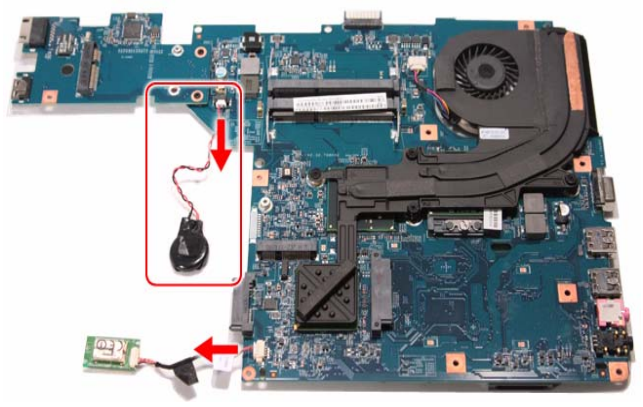
Type	Quantity	Color	Torque	Part Number
M2.5 x L5	5	Black	3.0 kgf-cm	86.00F87.735

6. Remove the mainboard from the upper case.



IMPORTANT: A circuit board that is >10 cm^2 has been highlighted with a red rectangle as shown in the above image. Follow the local regulations for disposing this type of circuit board.

7. Turn the mainboard over to access the RTC battery and Bluetooth module cable connectors.
8. Disconnect the RTC battery and Bluetooth module cable from their mainboard connectors.



IMPORTANT: The RTC battery has been highlighted with a red rectangle in the above image. Detach the RTC battery and follow the local regulations for disposing it.

Troubleshooting

This chapter describes the procedures for performing a BIOS recovery, clearing the BIOS pasword and unlocking the HDD. It also lists the POST error indicators and BIOS beep codes, as well general troubleshooting instructions.

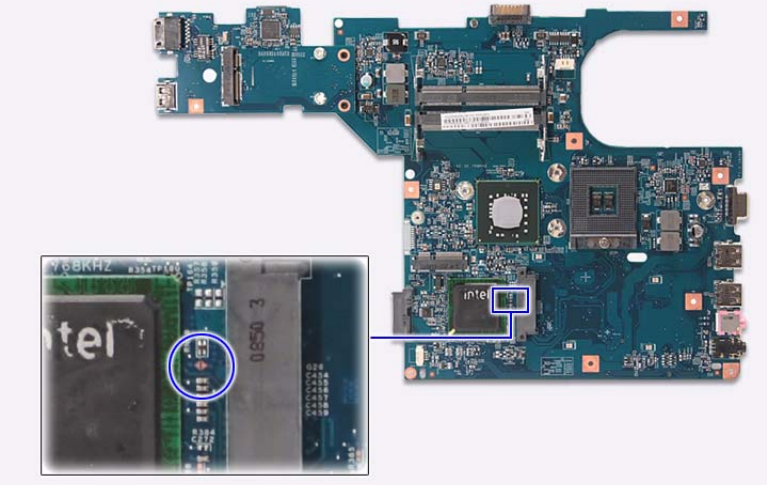
Clearing a BIOS Password

To clear a lost BIOS password (user or supervisor password) you need to short the G26 hardware gap located near the HDD connector.

H/W Gap	Default Setting	Function
G26	Open (normal)	Short to clear the user and supervisor passwords.

To clear a BIOS password:

1. Turn off the computer and unplug all the peripherals connected to it.
2. Unplug the power cord from the computer.
3. Remove the battery pack according to the instructions described on page 30.
4. Remove the lower case cover according to the instructions described on page 31.
5. Locate the G26 gap. It is between the HDD connector and the south bridge chip



6. Use an electrical conductivity tool to short the two contacts on the hardware gap together.
7. While resting the tool on the two contacts, plug one end of the AC adapter into the DC-in jack and plug one end to an electrical outlet.
8. Press the power button to turn on the system.
9. After the BIOS POST, remove the tool from the hardware gap.
10. Reinstall the HDD module, battery pack, and the lower case cover.
11. Turn on the computer and press **F2** during bootup to access the Setup Utility.
12. Press **F9** to load the system defaults.
13. Press **F10** to save the changes you made and close the Setup Utility.

Touchpad Check

If the touchpad doesn't work, do the following procedures in sequence to correct the problem. Do not replace a non-defective FRU:

1. After rebooting, run the Tracking Pad PS2 Mode Driver. For example Syn touch driver.
2. Run the utility with the PS/2 mouse function and check if the mouse is working.
3. If the PS/2 mouse does not work, then click if the main board to switch board FPC is connected properly.
4. If the mainboard to switch board FPC is connected correctly, then check if the FFC on the touchpad board is connected properly.
5. If the FFC on the touchpad board is connected correctly, check if LS851 JP1 Pin6 = 5V are pules. If yes, then replace switch board. If not, then go to the next step.
6. Replace the touchpad board.
7. If the touchpad still does not work, then replace the FPC on touchpad board.

After you use the touchpad, the pointer drifts on the screen for a short time. This self-acting pointer movement will occur when a slight, steady pressure is applied to the touchpad pointer. This symptom is not a hardware problem. No actions are necessary to be taken if the pointer movement stops in a short period of time.

Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the advanced diagnostic test for the mainboard in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See "Power System Check" on page 72)

Follow procedures below to isolate the failing FRU. Do not isolate non-defective FRU.

1. Power off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
   - Non-Acer devices
   - Printer, mouse, and other external devices
   - Battery pack
   - Hard disk drive
   - DIMM
   - CD/DVD-ROM drive
4. Power on the computer.
5. Determine if the problem has been resolved.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failed FRU.
7. If the problem persists, replace the mainboard, and then LCD assembly (one at a time). Do not replace a non-defective FRU.

Category	Part Name	Part Number
Power cord *(continuation)*		
	POWER CORD 2.5A 125V USA	27.01518.A11
	POWER CORD 2.5A 125V 1.8M BLACK TAIWANESE	27.01518.781
Battery pack		
	BATTERY PANASONIC AS-2009B LI-ION 4S1P PANASONIC 4 CELL 2900MAH MAIN COMMON	BT.00405.010
	BATTERY SANYO LI-ION 4CELL 2600MAH	BT.00403.017
	BATTERY PANASONIC AS-2009B LI-ION 4S2P PANASONIC 8 CELL 5800MAH MAIN COMMON	BT.00805.012
Boards		
Mainboard		
	MAINBOARD SM30 UMA GM45 ICH9M LF W/RTC BATTERY W/O MODEM BOARD NONE 3G	MB.PAD01.001
I/O board		
	IO BOARD W/O 3G CARD READER	55.PAD01.003
Media board		
	MULTI-MEDIA BOARD	55.PAD01.001
Touchpad board		
	TOUCHPAD SYNAPTICS TM-01262-002	56.PAD01.001
Fingerprint reader board		
	FINGER PRINT BOARD	55.PAD01.002
Secondary HDD transfer board		
	TRANSFER CONNECTOR BOARD FOR 2ND 2.5" HDD	55.PAD01.004

Model	RO	Country	Acer PN	Description	CPU	LCD	VGA	DM1	DM2	HD1	HD2	ODD	Card Reader	WLAN	WLAN 1	BT	K/B	FP	Cam	BTY	Adapter	Power Cord
AS3935-732G16Mn	AAP	Thailand	LX.PAD0X.164	AS3935-732G16MnEM VHP32ATTH1MC UMACFPcc1*2G/160_1.8/BT/4L2.8/5R/CB_n3_FP_0.3D_TH22	C2DP7350	NLED13.3WXGAGS	UMA	SO2GBIII10	N	N160GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP3x3MMW	SP3x3MMW	BT2.0	Thailand(KB.I140A.109)	VFS201	0.3MLDV	4CELL2.8	65W	US-110V
AS3935-732G25Mn	AAP	Thailand	LX.PAD0X.165	AS3935-732G25MnEM VHP32ATTH1MC UMACFPcc1*2G/250_1.8/BT/4L2.8/5R/CB_n3_FP_0.3D_TH22	C2DP7350	NLED13.3WXGAGS	UMA	SO2GBIII10	N	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP3x3MMW	SP3x3MMW	BT2.0	Thailand(KB.I140A.109)	VFS201	0.3MLDV	4CELL2.8	65W	US-110V
AS3935-732G25Mn	AAP	India	LX.PAG0X.006	AS3935-732G25MnVHP32ATIN1 MCUMAGCFPcc 1*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_3G_EN12	C2DP7350	NLED13.3WXGAGS	UMA	SO2GBIII10	N	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2HMW	SP1x2HMW	BT2.0	USInternational(KB.I140A.112)	VFS201	0.3MLDV	4CELL2.8	65W	South Africa-S (India)
AS3935-732G25Mn	AAP	Philippines	LX.PAG0X.005	AS3935-732G25MnEM VHP32ATPH1MC UMAGCFPcc1*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_3G_EN14	C2DP7350	NLED13.3WXGAGS	UMA	SO2GBIII10	N	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2HMW	SP1x2HMW	BT2.0	USInternational(KB.I140A.112)	VFS201	0.3MLDV	4CELL2.8	65W	US-110V
AS3935-732G25n	AAP	Thailand	LX.PAD0X.171	AS3935-732G25nEM VHP32ATTH1MC UMACFPcc1*2G/250/BT/4L2.8/5R/CB_n2_FP_0.3D_TH22	C2DP7350	NLED13.3WXGAGS	UMA	SO2GBIII10	N	N	N250GB5.4KS	N	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Thailand(KB.I140A.109)	VFS201	0.3MLDV	4CELL2.8	65W	US-110V
AS3935-733G25Mn	PA	USA	LX.PAD0X.216	AS3935-733G25MnVHP32ATUS1 MCUMACFPcc 2G+1G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_EN32	C2DP7350	NLED13.3WXGAGS	UMA	SO2GBIII10	SO1GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	USInternational(KB.I140A.112)	VFS201	0.3MLDV	4CELL2.8	65W	US-110V
AS3935-733G25Mn	AAP	India	LX.PAG0X.007	AS3935-733G25MnVHP32ATIN1 MCUMAGCFPcc2G+1G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_3G_EN12	C2DP7350	NLED13.3WXGAGS	UMA	SO2GBIII10	SO1GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2HMW	SP1x2HMW	BT2.0	USInternational(KB.I140A.112)	VFS201	0.3MLDV	4CELL2.8	65W	South Africa-S (India)
AS3935-733G32n	AAP	India	LX.PAD0X.178	AS3935-733G32nVHP32ATIN1 MCUMACFPcc 2G+1G/320/BT/4L2.8/5R/CB_n2_FP_0.3D_EN12	C2DP7350	NLED13.3WXGAGS	UMA	SO2GBIII10	SO1GBIII10	N	N320GB5.4KS	N	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	USInternational(KB.I140A.112)	VFS201	0.3MLDV	4CELL2.8	65W	South Africa-S (India)

Model	RO	Country	Acer PN	Description	CPU	LCD	VGA	DM1	DM2	HD1	HD2	ODD	Card Reader	WLAN	WLAN 1	BT	K/B	FP	Cam	BTY	Adapter	Power Cord
AS3935-744G16Mn	EMEA	Middle East	LX.PAD0X.111	AS3935-744G16MnEM VHP32ATME9MC UMACFPcc 2*2G/160_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_FR22	C2DP7450	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N160GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	FR/Arabic(KB.I140A.094)	VFS201	0.3MLDV	4CELL2.8	65W	Continental
AS3935-744G16Mn	EMEA	Israel	LX.PAD0X.113	AS3935-744G16MnVHP32ATIL1 MCUMACFPcc 2*2G/160_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_HE12	C2DP7450	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N160GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	US International w/ Hebrew(KB.I140A.113)	VFS201	0.3MLDV	4CELL2.8	65W	Israel
AS3935-744G16Mn	EMEA	Greece	LX.PAD0X.114	AS3935-744G16MnVHP32ATGR1 MCUMACFPcc 2*2G/160_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_EL32	C2DP7450	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N160GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Greek(KB.I140A.097)	VFS201	0.3MLDV	4CELL2.8	65W	Continental
AS3935-744G16Mn	EMEA	Middle East	LX.PAD0X.105	AS3935-744G16MnEM VHP32ATME2MC UMACFPcc 2*2G/160_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_AR23	C2DP7450	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N160GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Arabic(KB.I140A.088)	VFS201	0.3MLDV	4CELL2.8	65W	UK and US-110V
AS3935-744G16Mn	EMEA	UK	LX.PAD0X.099	AS3935-744G16MnVHP32ATGB1 MCUMACFPcc 2*2G/160_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_EN14	C2DP7450	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N160GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	UK(KB.I140A.111)	VFS201	0.3MLDV	4CELL2.8	65W	UK
AS3935-744G16Mn	EMEA	Poland	LX.PAD0X.103	AS3935-744G16MnVHP32ATPL1 MCUMACFPcc 2*2G/160_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_PL11	C2DP7450	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N160GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	US International(KB.I140A.112)	VFS201	0.3MLDV	4CELL2.8	65W	Continental
AS3935-744G16Mn	EMEA	Switzerland	LX.PAD0X.102	AS3935-744G16MnVHP32ATCH1 MCUMACFPcc 2*2G/160_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_IT42	C2DP7450	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N160GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Swiss/G(KB.I140A.108)	VFS201	0.3MLDV	4CELL2.8	65W	Swiss
AS3935-744G25Mn	EMEA	Italy	LX.PAD0X.217	AS3935-744G25MnVHP32ATIT1 MCUMACFPcc 2*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_IT12	C2DP7450	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Italian(KB.I140A.099)	VFS201	0.3MLDV	4CELL2.8	65W	Italian

Model	RO	Country	Acer PN	Description	CPU	LCD	VGA	DM1	DM2	HD1	HD2	ODD	Card Reader	WLAN	WLAN 1	BT	K/B	FP	Cam	BTY	Adapter	Power Cord
AS3935-864G25Mn	EMEA	Middle East	LX.PAD0X.070	AS3935-864G25MnEM VHP32ATME9MC UMACFPcc 2*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_FR22	C2DP8600	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	FR/Arabic (KB.I140A.094)	VFS201	0.3MLDV	4CELL2.8	65W	Continental
AS3935-864G25Mn	EMEA	Middle East	LX.PAD0X.068	AS3935-864G25MnEM VHP32ATME2MC UMACFPcc 2*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_EN15	C2DP8600	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Arabic (KB.I140A.088)	VFS201	0.3MLDV	4CELL2.8	65W	UK and US-110V
AS3935-864G25Mn	EMEA	Middle East	LX.PAD0X.069	AS3935-864G25MnEM VHP32ATME6MC UMACFPcc 2*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_EN15	C2DP8600	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	US International (KB.I140A.112)	VFS201	0.3MLDV	4CELL2.8	65W	UK
AS3935-864G25Mn	EMEA	Italy	LX.PAD0X.071	AS3935-864G25MnVHP32ATIT1 MC UMACFPcc 2*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_IT12	C2DP8600	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Italian (KB.I140A.099)	VFS201	0.3MLDV	4CELL2.8	65W	Italian
AS3935-864G25Mn	EMEA	Greece	LX.PAD0X.073	AS3935-864G25MnVHP32ATGR1 MC UMACFPcc 2*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_EL32	C2DP8600	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Greek (KB.I140A.097)	VFS201	0.3MLDV	4CELL2.8	65W	Continental
AS3935-864G25Mn	EMEA	Spain	LX.PAD0X.074	AS3935-864G25MnVHP32ATES1 MC UMACFPcc 2*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_ES22	C2DP8600	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Spanish (KB.I140A.106)	VFS201	0.3MLDV	4CELL2.8	65W	Continental
AS3935-864G25Mn	EMEA	Switzerland	LX.PAD0X.058	AS3935-864G25MnVHP32ATCH1 MC UMACFPcc 2*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_IT42	C2DP8600	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	Swiss/G (KB.I140A.108)	VFS201	0.3MLDV	4CELL2.8	65W	Swiss
AS3935-864G25Mn	EMEA	UK	LX.PAD0X.056	AS3935-864G25MnVHP32ATGB1 MC UMACFPcc 2*2G/250_1.8/BT/4L2.8/5R/CB_n2_FP_0.3D_EN14	C2DP8600	NLED13.3WXGAGS	UMA	SO2GBIII10	SO2GBIII10	N250GB5.4KS1.8	N	NSM8XS9.5	5 in 1-Build in	SP1x2MMW	SP1x2MMW	BT2.0	UK (KB.I140A.111)	VFS201	0.3MLDV	4CELL2.8	65W	UK