BFC-15W9

15.6" Multifunctional Full Flat Multi-Touch Panel Computer

Quick Reference Guide

1st Ed –09 October 2014

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Part No. E2017BFW9A0R

FCC Statement

THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTATLLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

A Message to the Customer

Avalue Customer Services

Each and every Avalue's product is built to the most exacting specifications to ensure reliable performance in the harsh and demanding conditions typical of industrial environments. Whether your new Avalue device is destined for the laboratory or the factory floor, you can be assured that your product will provide the reliability and ease of operation for which the name Avalue has come to be known.

Your satisfaction is our primary concern. Here is a guide to Avalue's customer services. To ensure you get the full benefit of our services, please follow the instructions below carefully.

Technical Support

We want you to get the maximum performance from your products. So if you run into technical difficulties, we are here to help. For the most frequently asked questions, you can easily find answers in your product documentation. These answers are normally a lot more detailed than the ones we can give over the phone. So please consult the user's manual first.

To receive the latest version of the user's manual; please visit our Web site at: http://www.avalue.com.tw/

Content

1. Get	ting Started	.4
1.1	Safety Precautions	.4
1.2	Packing List	.4
1.3	System Specifications	.5
1.4	System Overview	.7
1.4.1	Rear View	. 7
1.5	System Dimensions	.8
1.5.1	Front, rear and side view	. 8
2. Har	dware Configuration	.9
2.1	BFC-15W9 connector mapping	10
2.1.1	External Serial Port 1 connector (COM1)	10
2.2	Installing Hard Disk & Memory (BFC-15W9)	11

1. Getting Started

1.1 Safety Precautions

Warning!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

1.2 Packing List

- 1 x BFC-15W9 15.6" Multifunctional Full Flat Multi-Touch Panel Computer
- 1 x DVD-ROM contains the followings:
 - User's Manual (this manual in PDF file)
 - Ethernet driver and utilities
 - VGA drivers and utilities
 - Audio drivers and utilities
 - Chipset drivers
- Other major components include the followings:
 - 60W adapter and power cord



If any of the above items is damaged or missing, contact your retailer.

1.3 System Specifications

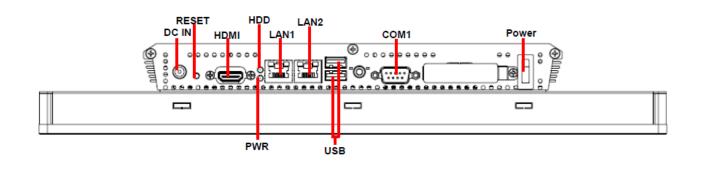
Component					
Mother Board		EBM-BYT			
CPU		Onboard Intel® Atom Quad-Core J1900 2.0GHz with Integrated			
		Chipset			
M	•	One 204-pin DDR3L SODIMM Socket Supports Up to 8GB DDR3L			
Memory		1066/1333 SDRAM			
Adapter		+12 Vdc / 5 A (60W)			
Wireless LAN	•	Optional USB/MPCIe WiFi module			
Storage					
Hard Disk Drive	•	Optional 2.5" SATA HDD			
Solid State Drive	•	Optional 2.5" SATA SSD			
Other Storage Device	•	Optional mSATA			
Panel					
LCD Panel	•	15.6", 16:9, HD			
B/L Inverter/Converter	•	Built in LED backlight			
Touch Screen	•	Р-сар			
Touch Controller	•	EETI			
External I/O	-				
PS/2 KB & Mouse	•	1 x RS-232			
USB Port	•	1 x USB 3.0, 1 x USB 2.0			
Audio Port	•	1 x Line-out			
LAN Port	•	2 x RJ-45 (Dual Intel I211AT PCI-E Gigabit LAN)			
Wireless LAN Antenna	•	Reserved 1 for WiFi or 3G antenna			
Indicator Light	•	LED for Power, HDD			
Expansion Slots	•	2 x Mini PCIe			
Mechanical	r				
Power Type	•	AT/ATX			
Power Connector Type	•	DC in			
Dimension	•	385.3mm x 240.3mm x 55.5mm			
Weight	•	5.2 Kg			
Color	•	Front Silver & Rear panel Black			
Fanless		Yes			
Reliability					
EMI Test	•	Class B			
Safety	•	CE FCC			
Dust and Rain Test	•	Follow standard ones			

BFC-15W9

Vibration Test		Follow standard ones		
Mechanical Shock Test		Follow standard ones		
Drop Test		Follow standard ones		
Operating Temperature		0 to 40°C		
Operating Humidity		5%~90% relative humidity, non-condensing		
Storage Temperature		-10 to 50°C		

1.4 System Overview

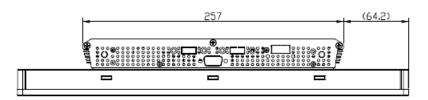
1.4.1 Rear View

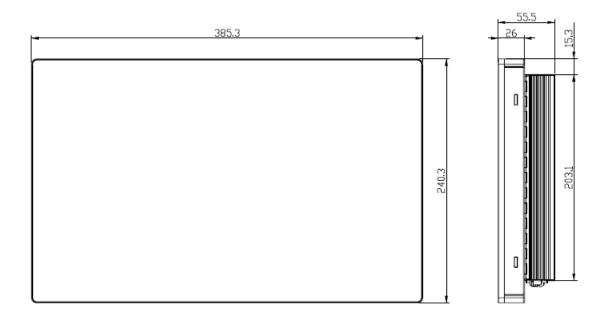


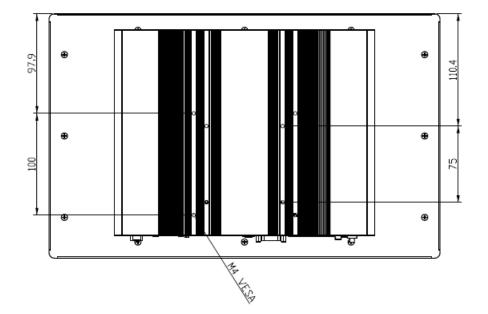
Connectors					
Label	Function	Note			
COM1	External Serial Port 1 connector DB-9 male connector				
HDMI	HDMI connector				
LAN1/2	RJ-45 Ethernet 1/2				
Power	System power switch				
DC IN	DC Power-in connector				
RESET	Reset button				
HDD	HDD LED				
PWR	Power LED				
USB	USB 2.0 connector x 1				
030	USB 3.0 connector x 1				

1.5 System Dimensions

1.5.1 Front, rear and side view







(Unit: mm)

2. Hardware Configuration

For advanced information, please refer to:

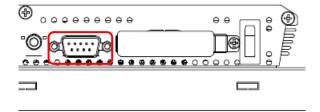
1- EBM-BYT Quick Installation Guide or User's Manual

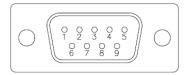


Note: If you need more information, please visit our website: http://www.avalue.com.tw

2.1 BFC-15W9 connector mapping

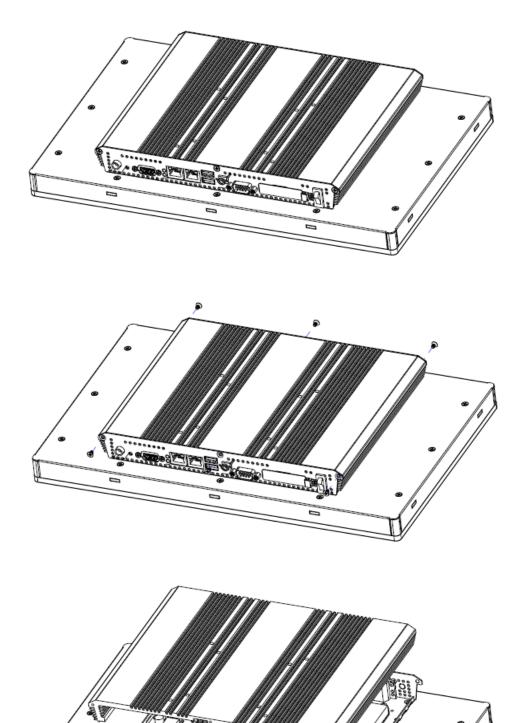
2.1.1 External Serial Port 1 connector (COM1)

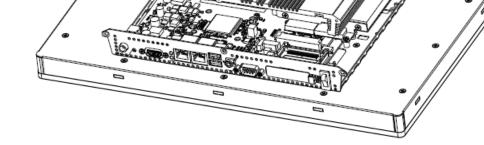




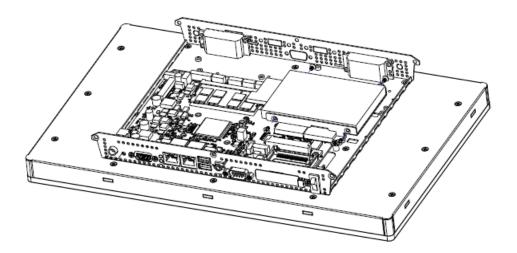
Signal	PIN	PIN	Signal
NDCDA#_485TXN	1	6	NDSRA#
NRXDA_485TXP	2	7	NRTSA#
NTXDA_485RXP	3	8	NCTSA#
NDTRA#_485RXN	4	9	NRIA#
GND	5		

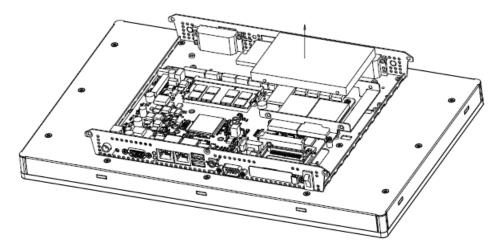
2.2 Installing Hard Disk & Memory (BFC-15W9)



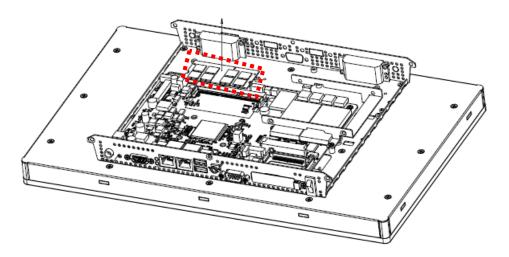


Step1. Unfasten 6 screws from the case to take off the top chassis. **Step2.** Remove the top chassis.





Step3. Unfasten 4 screws of the HDD bracket and take it off.



Step4. Remove the SODIMM from the memory socket.

