

BFC-10W7

10.1" Multifunctional Bezel Free Multi-Touch Panel Computer

Quick Reference Guide

1st Ed –3 September 2012

Distributed by:



www.texim-europe.com

Copyright Notice

Copyright © 2012 Avalue Technology Inc., ALL RIGHTS RESERVED.

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-10W7 10.1" Multifunctional Bezel Free 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	
Board	ECM-CDV
CPU	Intel® Atom™ Dual-Core D2550 1.86GHz CPU
BIOS	AMI 8M-bit SPI BIOS
System Chipset	Intel® NM10 Express Chipset
I/O Chip	Nuvoton W83627DHG-P
System Memory	One SODIMM socket supports up to 4GB DDR3 800/1066 SDRAM
SSD	One CompactFlash Type I/II socket
Panel	
LCD size	10.1", 16:9
Display type	LED
Resolution	1024 x 600
Pixel pitch	0.21525mm (H) x 0.21525mm (V)
Luminance	250 cd/m ²
Contrast ratio	500
Viewing angle	50(U), 60(D), 70(L), 70(R)
Response time	25 ms
Backlight	LED Backlight
Touch Type	Projected Capacitive Touch
Touch Light Transmission	86%
Touch Interface	USB
External I/O	
Serial Port	1 x RS232, 1x RS232/422/485 (selected by jumper)
Ethernet	2 x RJ-45
VGA/ HDMI	1 x HDMI; 1 x VGA
Audio port	1 x Line out; 1 x Mic in
USB	3 x USB 2.0
Mechanical & Environmental	
System Fan	n/a
Color	Black
Mounting	Wall/Stand/VESA 75 mm x 75 mm
Power Input	100~250 Vdc/ 47~63 Hz
Power Output	+12 Vdc / 5 A (60W)
ACPI	n/a

BFC-10W7

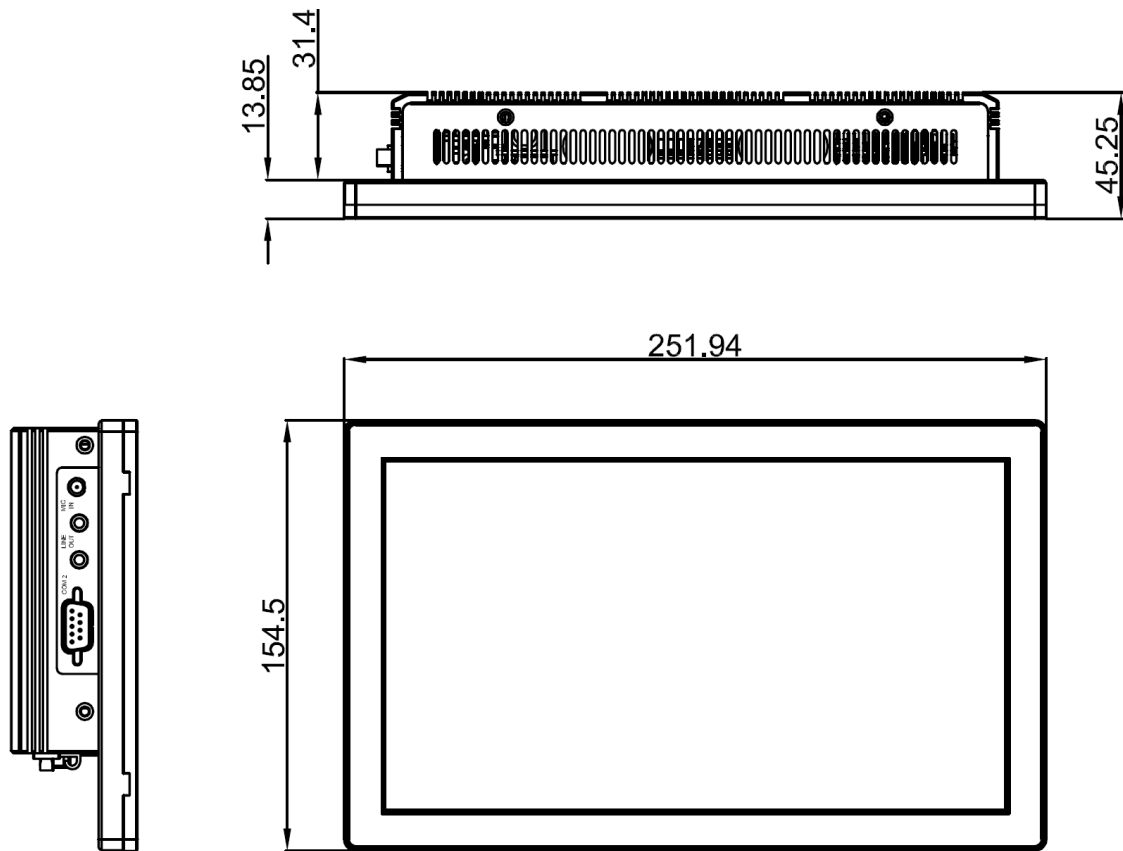
Power Type	AT/ATX
Operating Temp.	0 to 50°C
Operating Humidity	5%~90% relative humidity, non-condensing
Dimensions	251.94 x 154.5 x 45.25 mm
Weight	1.2 Kg
Reliability	
EMI Test	CE/FCC Class B
Dust and Rain Test	Front side IP65
Operating Temperature	0°C ~ 50°C
Operating Humidity	0%~90% relative humidity, non-condensing
Storage Temperature	-10°C ~ 60°C

Distributed by:

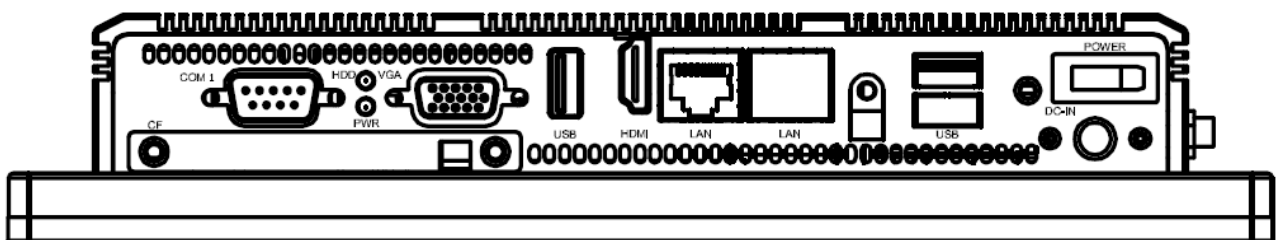


1.4 System Overview

1.4.1 Front & Top View



1.4.2 Rear View



Connectors

Label	Function	Note
COM1~2	Serial port connector1~2	DB-9 male connector
HDMI	HDMI connector	
VGA	VGA connector	
HDD	HDD Indicator	

BFC-10W7

LAN	RJ-45 Ethernet
LINE OUT	Line-out audio jack
Power	System power switch
USB	USB connector
PWR	Power Indicator
DC-IN	DC power-in connector
MIC IN	Microphone-in audio jack

2. Hardware Configuration

For advanced information, please refer to:

- 1- BFC-10W7 Quick Reference Guide or User's Manual
- 2- ECM-CDV included in this manual.

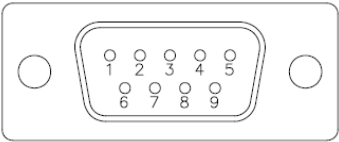
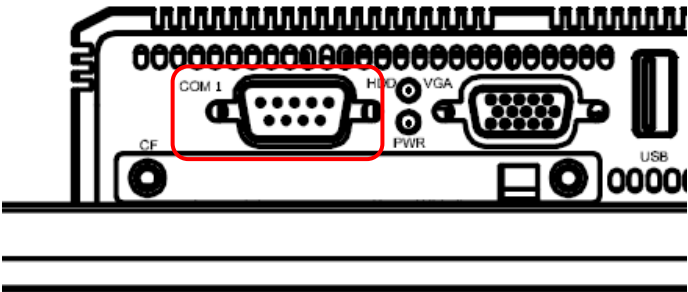


Note: If you need more information, please visit our website:

<http://www.avalue.com.tw>

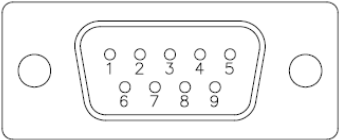
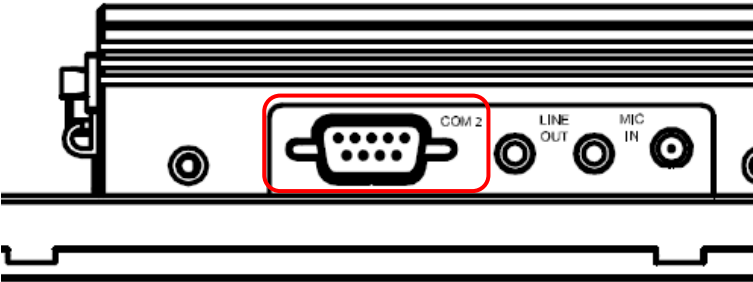
2.1 BFC-10W7 connector mapping

2.1.1 External Serial Port 1 connector (COM1)



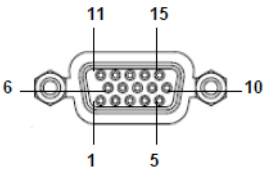
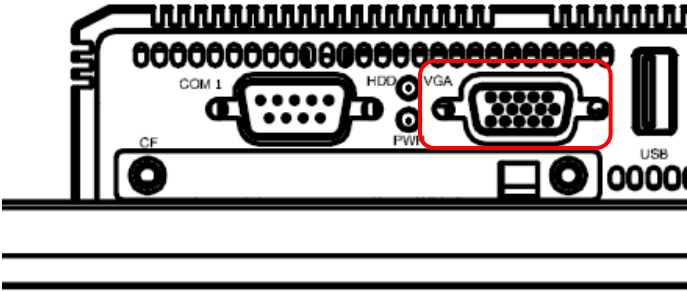
Signal	PIN	PIN	Signal
DCDA#	1	2	RxDA
TxDA	3	4	DTRA#
GND	5	6	DSRA#
RTSA#	7	8	CTSA#
RIA#	9	10	NC

2.1.2 External Serial Port 2 connector (COM2)



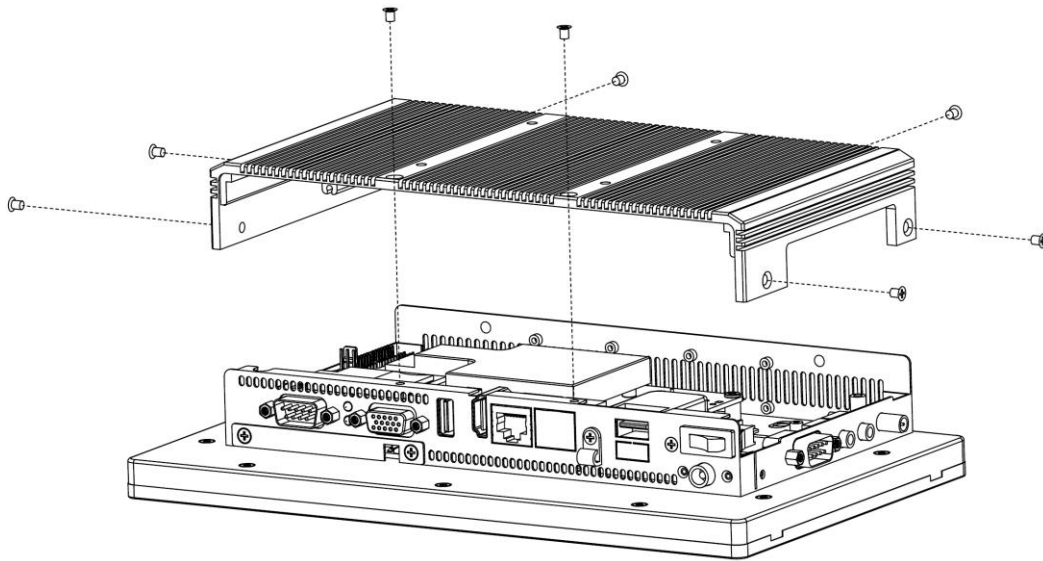
Signal	PIN	PIN	Signal
DCDB#	1	2	RxDB
TxDB	3	4	DTRB#
GND	5	6	DSRB#
RTSB#	7	8	CTSB#
RIB#	9	10	NC

2.1.3 VGA connector (VGA)

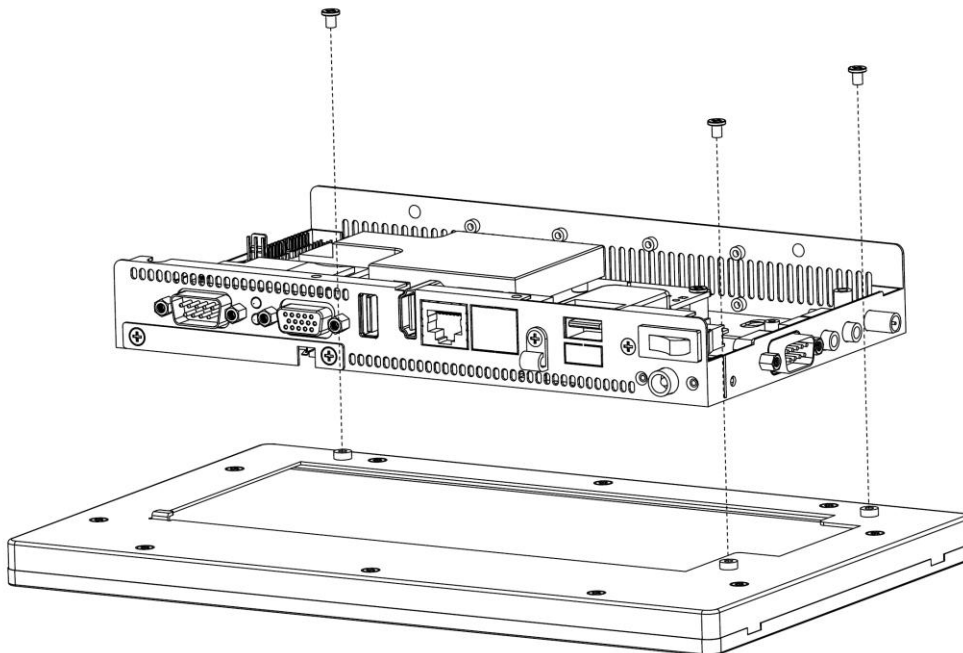


PIN	Signal	PIN	Signal	PIN	Signal
1	R	6	GND	11	NC
2	G	7	GND	12	DATA
3	B	8	GND	13	HSYNC
4	NC	9	+5V	14	VSYNC
5	GND	10	GND	15	CLK

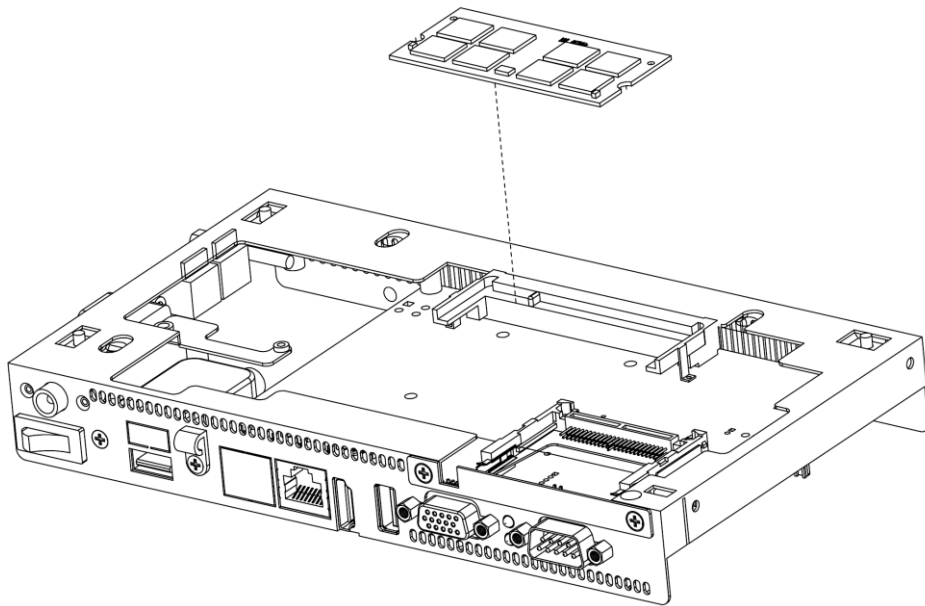
2.2 Installing Memory (BFC-10W7)



Step 1. Remove the 8 screws to disassemble your system back cover.

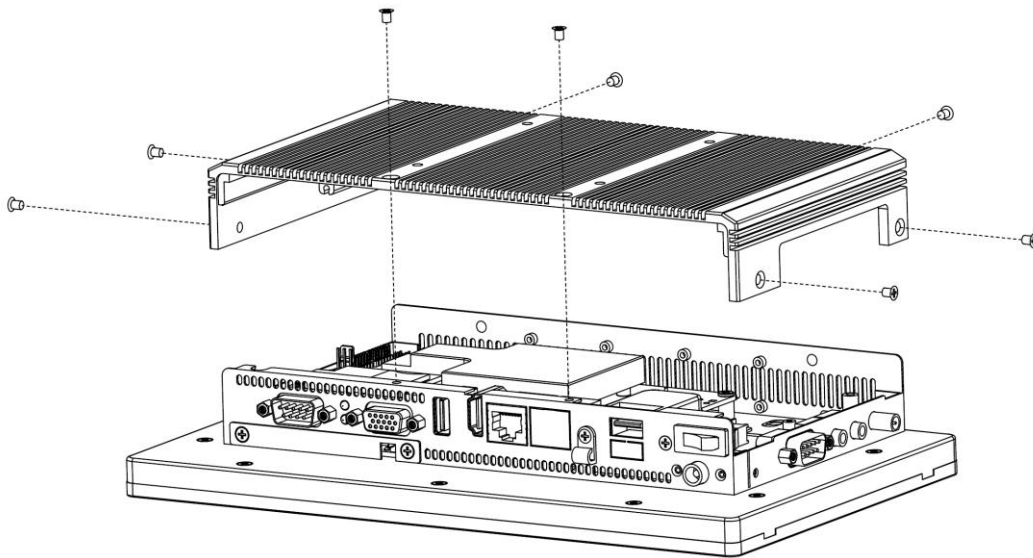


Step 2. Remove the 3 screws to disassemble your panel pc bezel.

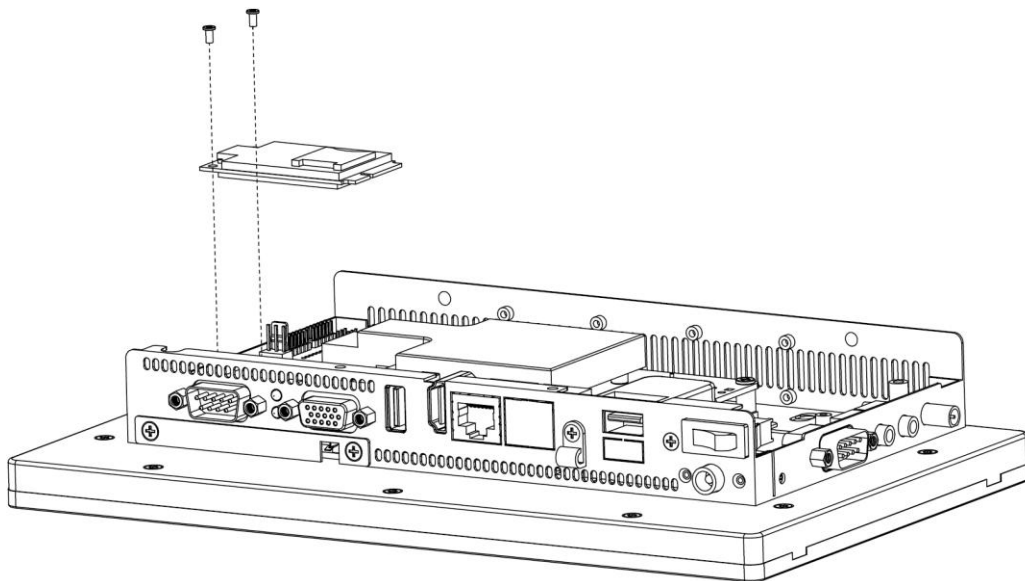


Step 3. Insert DDR3 SO-DIMM memory into the memory socket.

2.3 Installing PCIE device (BFC-10W7)



Step1. Remove the 8 screws to disassemble your system back cover.



Step2. Please install mini PCIe device, and fasten with 2 screws

