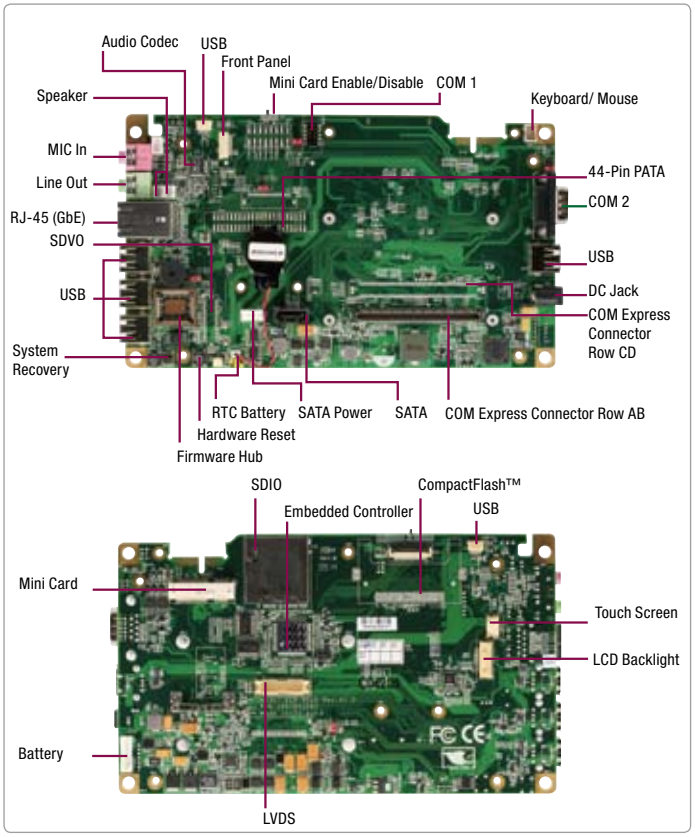
ECB-951D

COM Express Carrier Board



Features

- **Supports COM Express Module Pin-out Type 1/ 2, COM.0 Rev. 1.0**
- **RJ-45 x 1, Supports Gigabit Ethernet**
- **LVDS, SDVO, Touch Screen, LCD Backlight Connector**
- **Audio Jack x 2, Speaker Connector x 2**
- **PATA Connector x 1, SATA Port x 1, CompactFlash™ Type 1 Slot x 1, SDIO Slot x 1**
- **USB Port x 6, COM Port x 2**
- **PCI-Express [x1] Slot or Mini Card Slot x 1**
- **+19VDC Input, Battery Connector x 1**
- **SATA Power Connector x 1, 203mm x 119mm**

PS/2 Port	6-pin (3 x 2) wafer x 1
Audio	Audio jack x 2, supports 2 channel audio (MIC in, Line out) Analog Codec: Realtek ALC888 Buzzer x 1 Speaker connector x 2 (2-pin wafer x 2) Audio Amplifier: AD SSM2304CPZ, 2W, Class D
Switch/Button	Hardware reset button x 1 Mini Card Enabled/Disabled switch x 1 System recovery button x 1

Specifications

System	
COM Express Connector	x 2: TF-ECB-951D-A10 x 1: TF-ECB-951D-A10-01
I/O Chipset	Embedded Controller: ITE IT8513E
Front Panel Control	10-pin wafer (For PER-Y016, system control board)
Ethernet	10/100/1000Base-TX, RJ-45 x 1 (From CPU module)
Expansion Interface	PCI-Express [x1] slot x 1 or Mini Card slot x 1 (Default)
Power Supply Type	+19V DC input, DC power jack x 1 Battery connector x 1 (7-pin wafer)
CMOS Battery	RTC battery connector x 1 (2-pin wafer)
BIOS	Firmware Hub x 1 (w/ blank PLCC BIOS chip)
Board Size	8" x 4.69" (203mm x 119mm)
Gross Weight	0.88 lb (0.4 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	90,000
Display	
DVI	Via 9697V03B05-D + 170340030F: SDVO to DVI Daughter Board + Cable (TF-ECB-951D-A10) Via 9697V03B06-D + 1706301500: SDVO to DVI Daughter Board + Cable (TF-ECB-951D-A10-01)
LVDS	30-pin (15x2) LVDS connector x 1 LCD backlight connector x 1
SDVO	40-pin (20x2) SDVO connector x 1 (For TF-ECB-951D-A10 only)
Touch Screen	4-pin FFC/FPC connector x 1, supports 4-wire touch screen
I/O	
Storage	44-pin PATA connector x 1 SATA port x 1/ SATA power connector x 1 CompactFlash™ Type 1 slot x 1 SDIO slot x 1
Serial Port	RS-232 port x 1 (10-pin (5x2) box header) RS-232/422/485 port x 1 (9-pin D-Sub connector)
USB	Type A connector x 4 (Host) (Co-lay with 5-pin wafer x 4) 5-pin wafer x 2 (Host)

Packing List

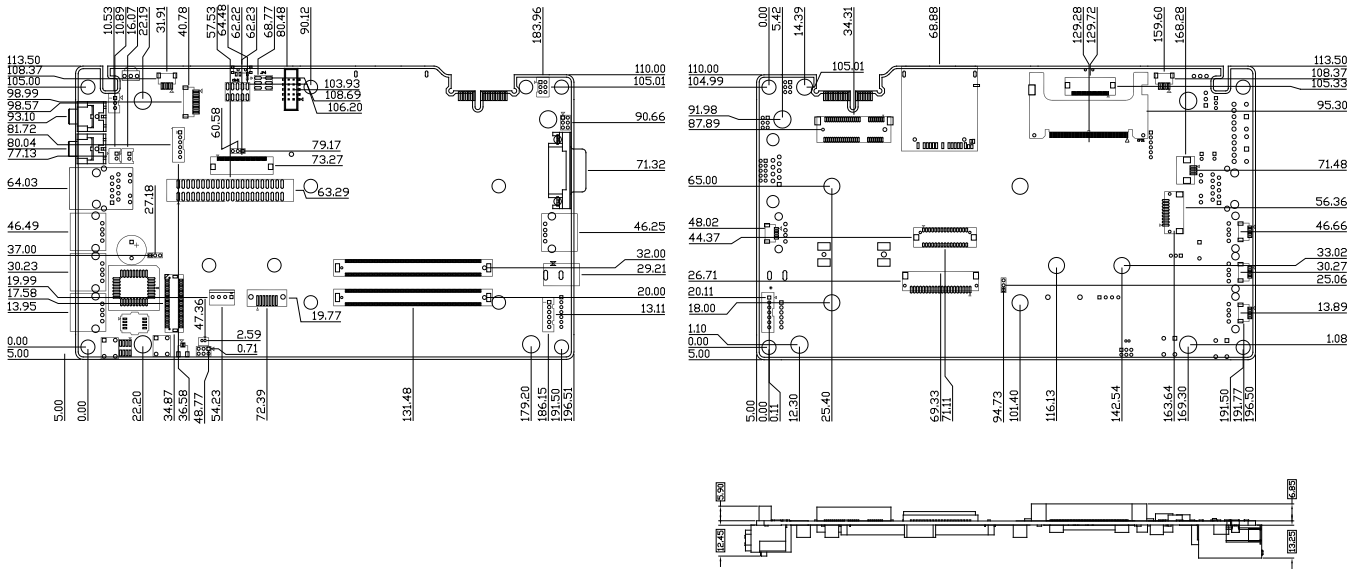
- **9697V03B05-D + 170340030F**
  SDVO to DVI Daughter Board + Cable (TF-ECB-951D-A10)
- **9697V03B06-D + 1706301500**
  SDVO to DVI Daughter Board + Cable (TF-ECB-951D-A10-01)
- **PER-Y016**
  System Control Board
- **9681951D00**
  Cable Kit
  - 1703100260 System Control Board Cable
  - 1709070500 SATA Cable
  - 1702151201 SATA Power Cable
  - 1701440184 44-pin IDE Cable
  - 1700060152 PS2 Cable
- **1757306502**
  Power Adapter (100-240V Input, +19V Output)
- **Quick Installation Guide**
- **ECB-951D**

Note: All specifications are subject to change without notice.

ECB-951D

Dimension

Unit: mm



Ordering Information

- **TF-ECB-951D-A10**
  COM Express Carrier Board, Gigabit Ethernet, 2CH Audio, 2 COM, USB2.0, CompactFlash™, SD, PCI-Express, DC, 2 COM Express Connectors, Rev. A1.0 (For COM-U15)
- **TF-ECB-951D-A10-01**
  COM Express Carrier Board, Gigabit Ethernet, 2CH Audio, 2 COM, USB2.0, CompactFlash™, SD, PCI-Express, DC, 1 COM Express Connector, Rev. A1.0 (For NanoCOM-U15)

Optional Accessories

- **9789PC3200**
  Li-Ion Battery Module, 3S2P, 11.1V, 4400mAh
- **Power Cord**

1702021831	EU
1702021832	USA
1702021833	UK
1702021834	Japan
1702021835	Australia