

# ITA-1910

## Intel® Atom™ D525 AFC with Dual GigE and 16 COM/Expansion Slots



### Features

- Intel® Atom™ D525 dual-core processor, 1.8 GHz
- Fanless, compact system design
- Wide power input range (9 ~ 36 V)
- 2 x PCI/PCIe expansion slots
- Supports up to 2 x GbE, 8 x USB 2.0, and 16 x COM ports
- RS-232/422/485 serial ports with automatic flow control
- Onboard DDR3 memory (up to 2 GB) with optional NVRAM
- Supports up to 24 digital I/O channels (24/48-bit)
- Front-accessible easy swap CF/DOM module

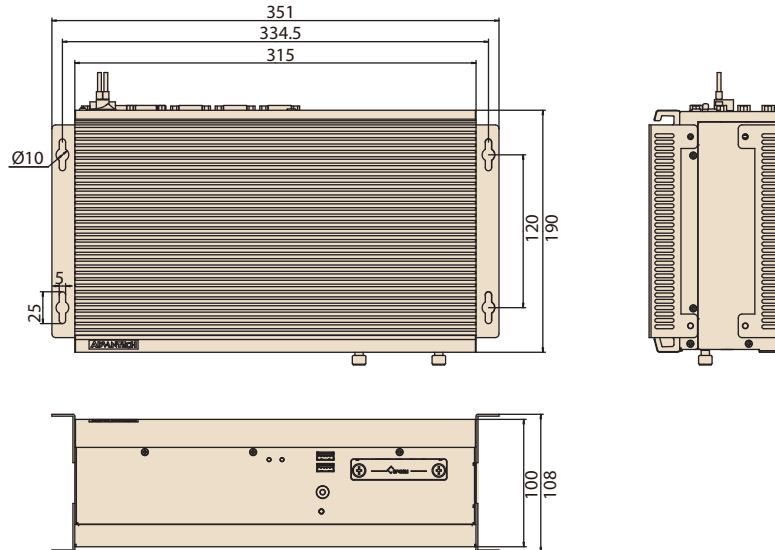
### Specifications

|                               |   |   |               |
|-------------------------------|---|---|---------------|
| Processor System              | CPU   | Intel® Atom™ D525 dual-core   |               |
|                               | Max. Speed  | 1.8 GHz   |               |
|                               | L2 Cache  | 1 MB  |               |
|                               | Chipset   | Intel® ICH8-M   |               |
|                               | BIOS  | AMI® SPI 64 Mb  |               |
| Memory                        | Technology  | Single-channel DDR3 800   |               |
|                               | Max. Capacity   | Onboard 1 GB (up to 2 GB maximum)   |               |
| Graphics                      | Chipset   | Embedded Gen 4+ GFX Core, 400 MHz frequency   |               |
|                               | VRAM  | Shared system memory up to 256 MB SDRAM   |               |
|                               | Multiple Display  | 2 x VGA/VGA + LVDS (optional)   |               |
|                               |   | Single channel maximum: 2048 x 1536 @ 60 Hz<br>Dual channel maximum: 1366 x 768 @ 60 Hz               |               |
| LVDS                          | Supports 18-bit single channel, up to 1366 x 768 @ 60 Hz (optional) |   |               |
| Extension Graphics (Optional) | Chipset   | SMI SM750 GPU   |               |
|                               | VRAM  | On chip 16 MB   |               |
|                               | Multiple Displays   | 2 x VGA   |               |
|                               | Max Resolution  | 1 Mb FRAM (optional)  |               |
| Ethernet                      | Interface   | 1 x mSATA socket  |               |
|                               | Controller  | 2 x Intel® 82583V   |               |
|                               | Connector   | 2 x RJ-45   |               |
| Storage                       | NVRAM   | 1 Mb FRAM (optional)  |               |
|                               | CF  | 1 x CompactFlash socket for Type I/II CompactFlash disk<br>1 x Easy swap SATA DOM CompactFlash module |               |
|                               | HDD   | Supports 2.5" HDD (optional)  |               |
|                               |   |   |               |
| I/O Interface                 | VGA   | 2   |               |
|                               | LAN   | 2   |               |
|                               | USB   | 8   |               |
|                               | Serial  | 16 x RS-232/422/485 serial ports with automatic flow control  |               |
|                               | Digital I/O   | 12-channel GPI and 12-channel GPO (with an optional additional 12-channel GPI and 12-channel GPO)     |               |
|                               | Audio   | 1 x Speaker out with 2 x 4W amplifier, 1 x mic in   |               |
| Expansion Slots               | PCI 32-bit  | 1   |               |
|                               | PCIe x1   | 2 (w/o 6 x COM I/O card)  |               |
|                               | Mini PCIe   | 1   |               |
| Power                         | Input Voltage   | 9 ~ 36 V DC   |               |
| Watchdog Timer                | Output  | System reset  |               |
|                               | Interval  | Programmable 1 ~ 255 sec/min  |               |
| Environment                   | Temperature   | Operating (w/o HDD)   | Non-Operating |
|                               |   | -25 ~ 60 °C   | 0 ~ 40 °C     |
| Physical Characteristics      | Dimensions (W x H x D)  | 315 x 190 x 100 mm  |               |

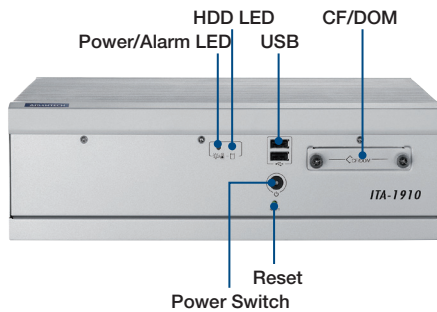
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### Dimensions

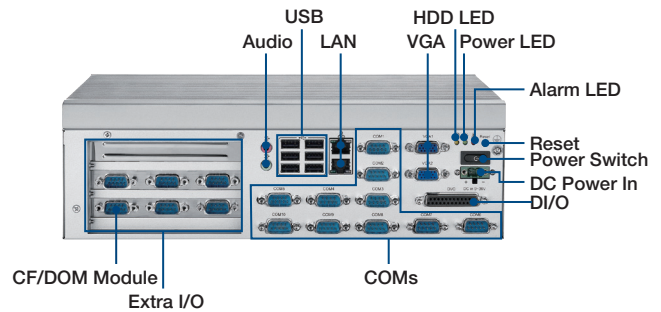
Unit: mm



### Front View



### Rear View



### Ordering Information

| Part Number    | CPU          | Onboard Memory (DDR3 800 MHz) | COM (RS-232/422/485) | DI/O   |
|----------------|--------------|-------------------------------|----------------------|--------|
| ITA-1910-00A1E | D525 1.8 GHz | 1G                            | 16                   | 24 bit |
| ITA-1910-01A1E | D525 1.8 GHz | 2G                            | 16                   | 24 bit |

### Packing List

| Part Number    | Description                   | Quantity |
|----------------|-------------------------------|----------|
| 2002191000     | Startup manual                | 1        |
| 2062171000     | Utility CD                    | 1        |
| 1700019558     | CF cable, 35 cm               | 1        |
| 1960052263N001 | Mounting bracket              | 2        |
| 1960055919N001 | DOM bracket                   | 1        |
| 1652002205     | Plug-in terminal block, 2 pin | 1        |
| 1990006571S000 | Rubber pad                    | 4        |
| 9662191000E    | HDD bracket accessory box     | 1        |

### Optional Accessories

| Part Number      | Description                                    |
|------------------|--|
| PCA-5650-00A1E   | Dual VGA output Mini PCI Express graphics card |
| 96PSA-A60W12P2-1 | Adapter 100 ~ 240 V, 60W, 12 V                 |
| 1700000596       | Power cord (China) CCC, 10A 250V, 3P 1.83 M    |
| 1702002600-01    | Power cord UL/CSA (USA) 125V 10A, 3P, 1.83 M   |
| 1700023534-01    | Power cord (UK) 13A, 250V, 3P, 1.83 M          |
| 1700019591       | COM cable, 10 cm                               |
| 1700019592       | DI/O cable, 15 cm                              |
| 1700002223       | Parallel cable, 32 cm                          |