

## MDG200-0T001 Embedded 4G Modem

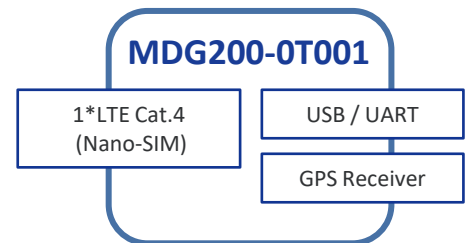


mPCIe , M.2, PCIe  
adapter available !!

MDG200-0T001 is an embedded LTE modem with USB and UART interfaces through its board-to-board connector. It's a Plug & Play end device that can provide LTE connectivity right after a SIM card is inserted into its nano-SIM (4FF) slot. With its intelligent connection monitoring mechanism, it can provide more reliable LTE connection for mission-critical applications. MDG200 equips with an internal web-based GUI for configuration and connection status monitoring. The GPS feature can also help collect the location data at real time.

### Applications:

- Industrial PC
- Retail / Point-Of-Sales
- Single Board Computer
- Video Surveillance DVR
- Professional A/V Solution



### Carrier Approved

- AT&T and Verizon end device certified
- Cost saving and time to market



### Easy Integration

- Plug & Play without software porting
- No special driver required



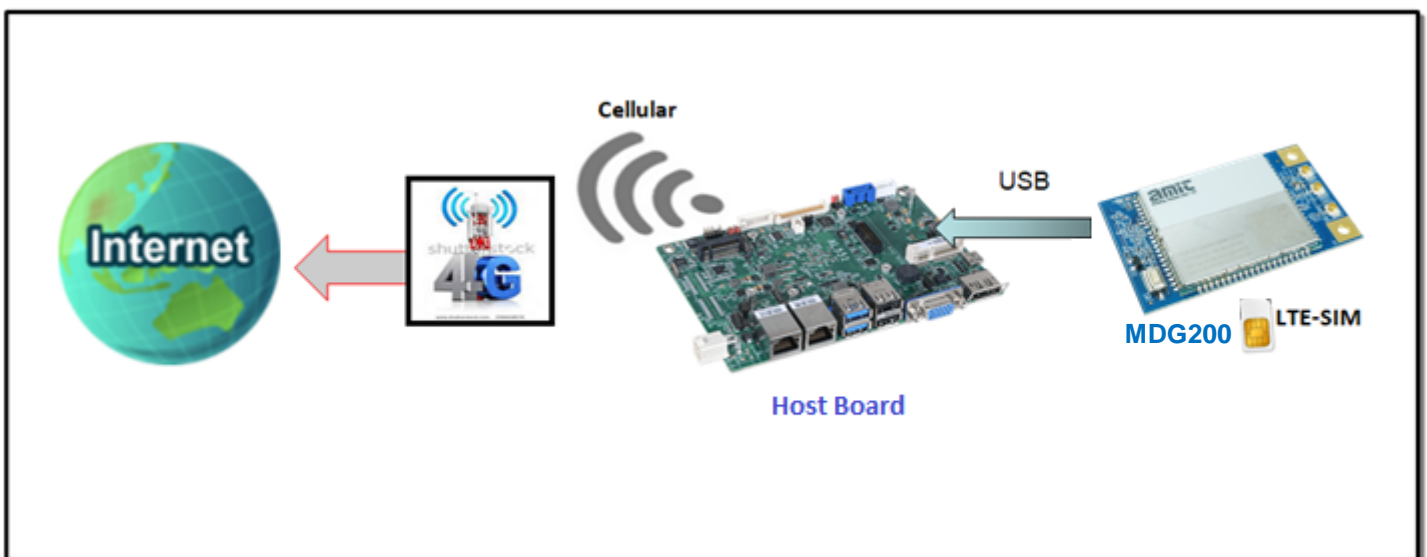
### Flexible SIM Selection

- An internal nano-SIM (4FF) slot
- Support external SIM on host device



### Easy Management

- Web-based GUI configuration
- Connectivity status monitoring



## Specification Summary

### Device Interface

- **LTE Module:** 1\*Cat-4 LTE (150Mbps DL, 50Mbps UL)
- **3GPP:** Release 11
- **SIM:** 1\* 4FF Hinge type for 1.8V / 3V SIM/USIM
- **LTE Band:** B2, B4, B5, B12, B13, B14, B66, B71
- **WCDMA Band:** B2, B4, B5
- **Data Interface:** USB 2.0 / UART through board-to-board connector
- **Power Input:** DC 3.3V / 5V through board-to-board connector
- **Antenna:**
  - 2\*I-PEX connector for external LTE antenna
  - 1\*I-PEX connector for external GPS antenna

### WAN & Uplink

- **WAN:** NAT / Modem mode

### Control Interface

- **Web-based GUI:** configuration and status monitoring
- **AT Command:** 3GPP TS 27.007, 27.005 and enhanced AT commands

### Environment

- **Operation Temperature:** -22°F-176°F (-30°C-80°C)
- **Storage Temperature:** -40°F-185°F (-40°C-85°C)
- **Humidity:** 10%~95% (non-condensing)
- **Dimension:** 50(L)x31(W)x7.5(H) mm  
1.96(L)x1.23(W)x0.3(H) inch

### Certification

- FCC
- PTCRB

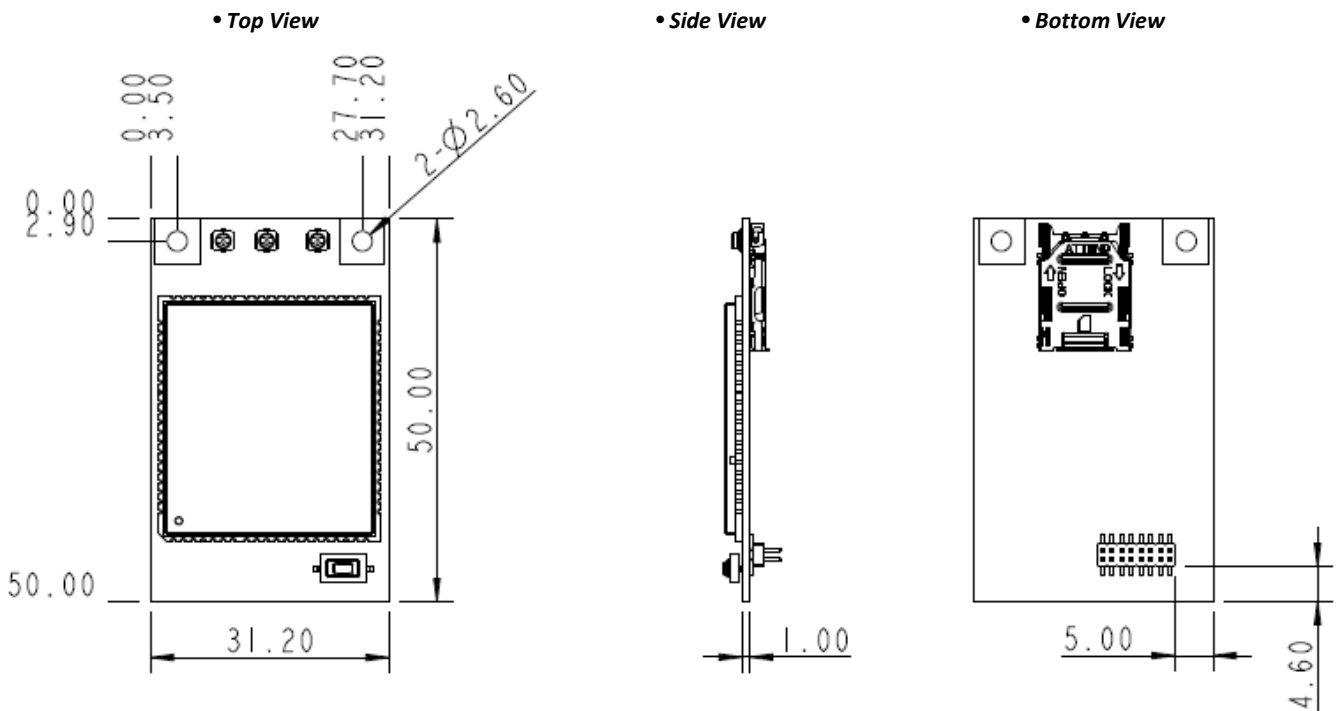
### Carrier Approval

- AT&T
- Verizon

### Package Accessory

- 1\*MDG200

## Mechanical Drawing (dimension marked in millimeter)



## Accessory

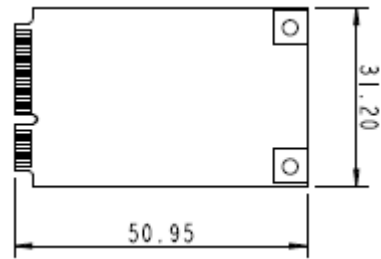
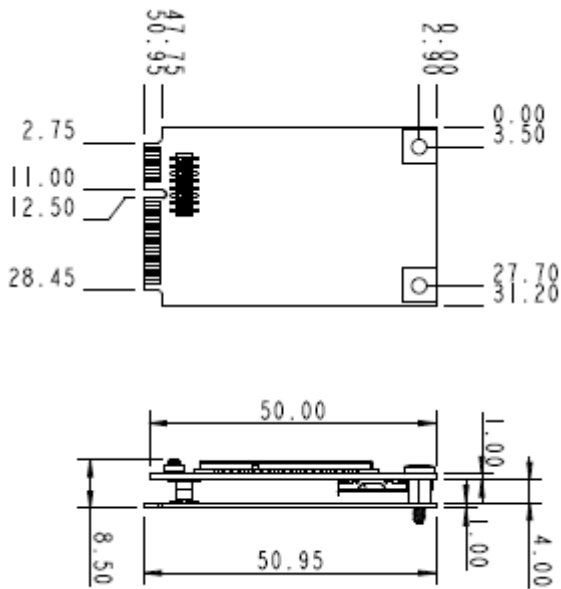
Part No.	Description	MOQ (pcs)
11320Y11244A1	External SMA LTE antenna (698-960, 1710-2170, 2300-2700MHz)	100
11400Y11110A1	SMA Female to I-PEX MHF RF cable, 100mm	100
11400Y11134A1	SMA Female to I-PEX MHF RF cable, 150mm	100
70740Y207X000Z1A1	miniPCIe adapter (full card)	50
70740Y207Y000Z1A1	M.2 adapter (B Key, 3042/3052)	50
70740Y206D000Z1A1	PCIe kit (1x PCIe adapter, 3x RF cables, Full/Half profile slot covers)	50

### Note

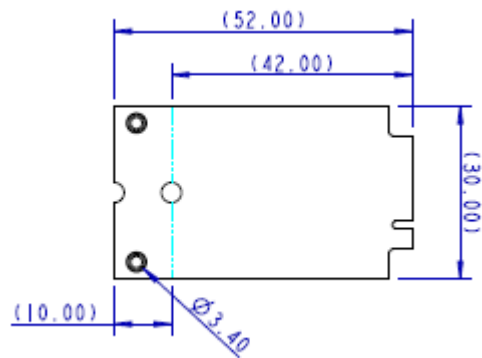
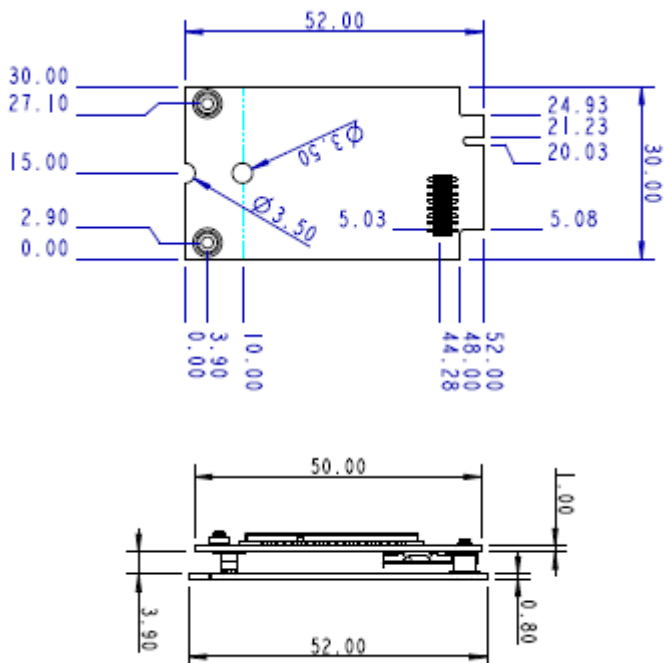
- Additional thermal solution may be required
- Specifications are subject to change without prior notice.

## Adapter Board Options

### • miniPCle Adapter

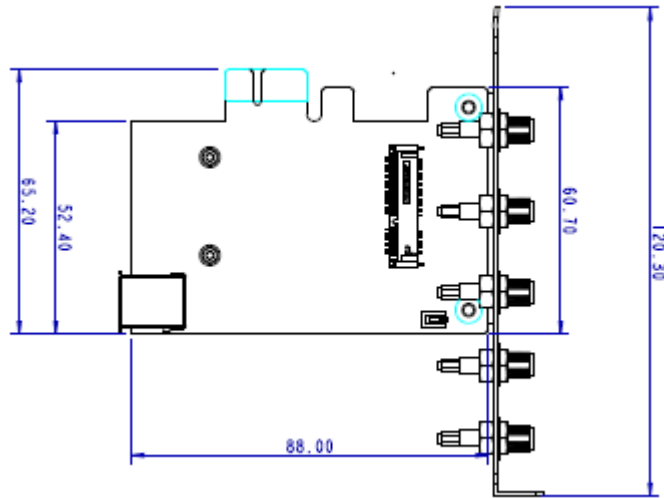


### • M.2 Adapter

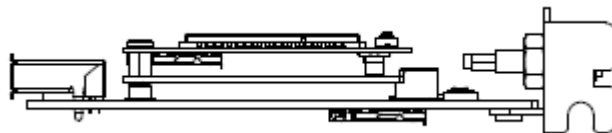
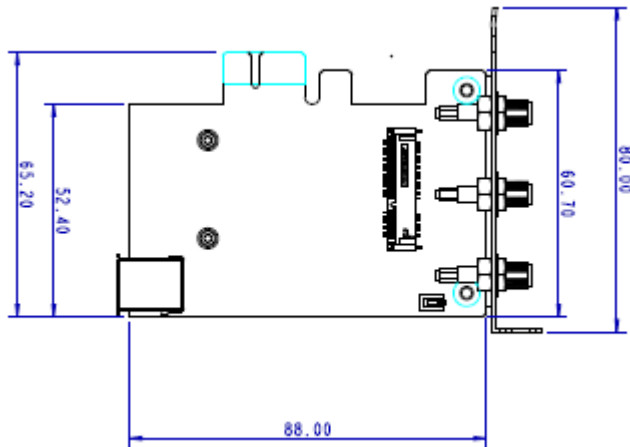


• PCIe Adapter

Full Profile



Half Profile



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