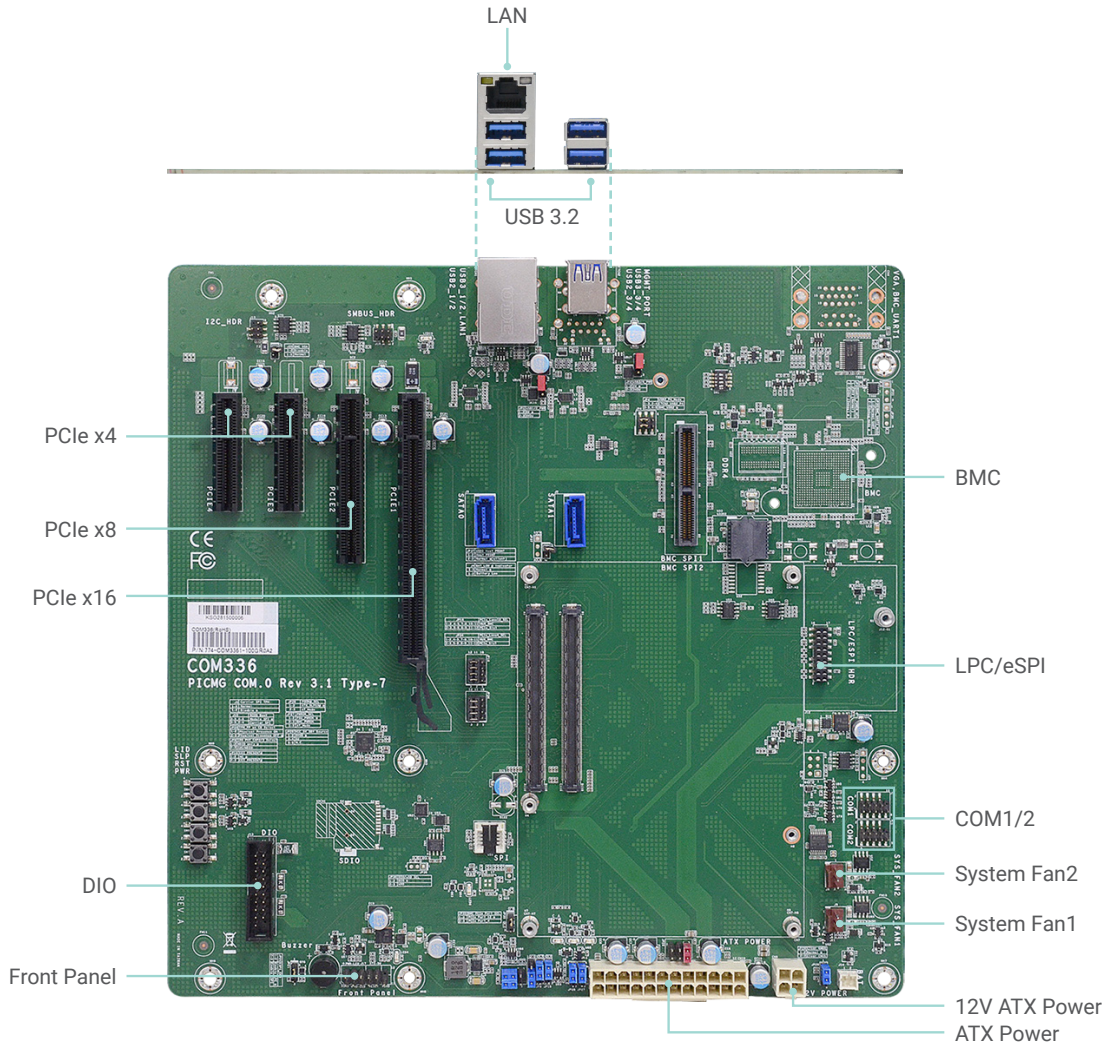


# COM336

COM Express® Carrier Board  
microATX form factor

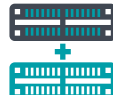


## KEY FEATURES



### 10G LAN

1 CEI 10Gb LAN Mini MEZZ slot, support 10GBASE-KR Ethernet MAC Speed



### Multiple Expansion

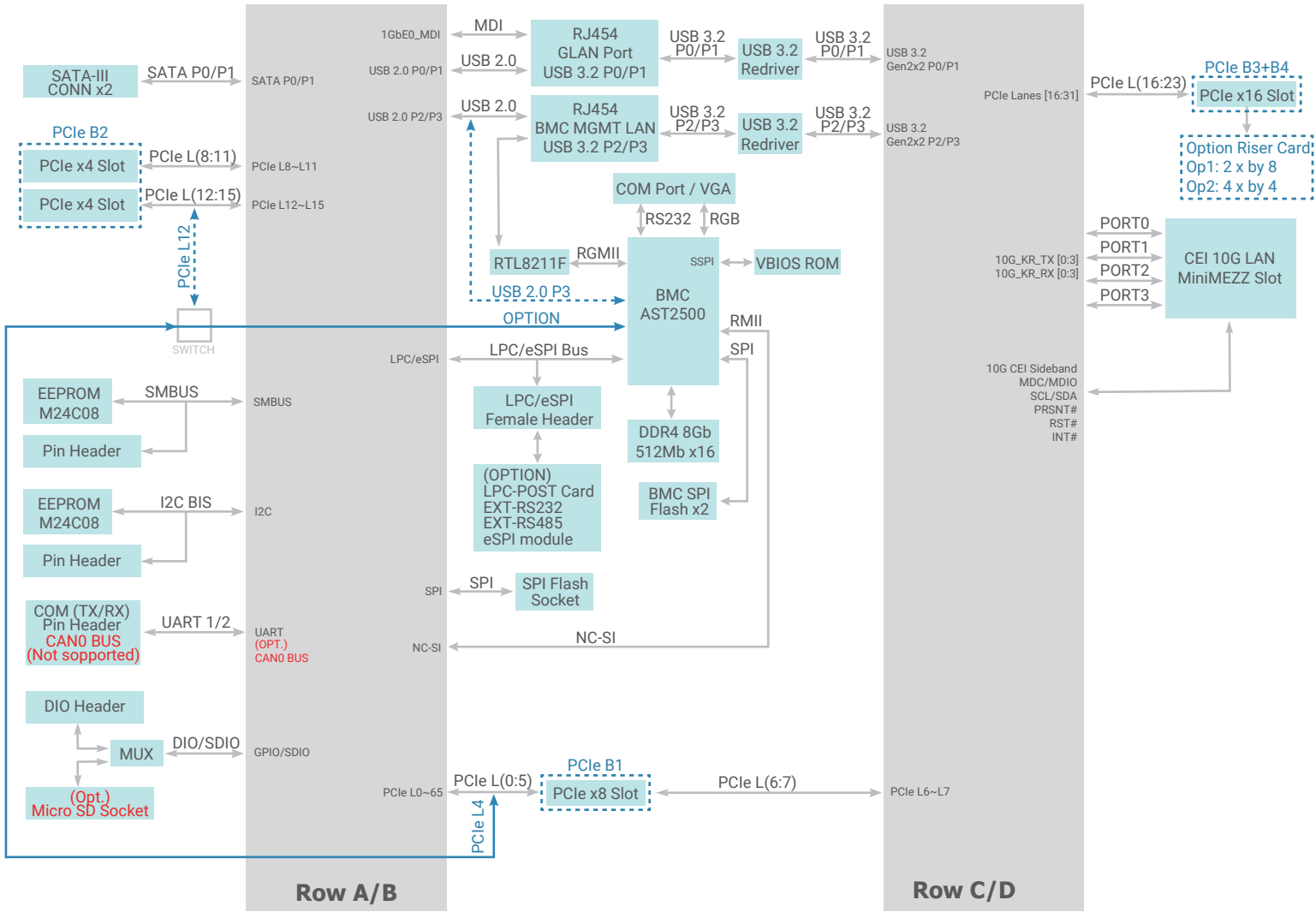
1 PCIe x8, 2 PCIe x4, 1 PCIe x16, 1 SDIO



### Rich I/O

1 10G LAN, 2 1G LAN, 4 USB 3.2 type A, 4 USB 2.0, 2 SATA 3.0

# BLOCK DIAGRAM



## SPECIFICATION

|                       |                          |  |
|-----------------------|--------------------------|--|
| <b>BMC FUNCTION</b>   | <b>Processor</b>         | AST2500 (non-BMC sku optional by request)  |
|                       | <b>SDRAM</b>             | 8Gb memory down<br>DDR4 2400 512M x16 SDRAM  |
|                       | <b>Display Interface</b> | Through BMC to convert VGA signal<br>VGA display resolution up to 1920x1200  |
|                       | <b>Ethernet</b>          | RTL8211F LAN PHY<br>Support 10/100/1000M Ethernet MAC Speed<br>RJ45 x1   |
|                       | <b>UART</b>              | COM port protocol: RS232<br>Connector type: DB9  |
|                       | <b>SMBus (for slave)</b> | From COMe BTB connector reserve pin  |
| <b>EXPANSION</b>      | <b>Interface</b>         | 1 x PCIe x8<br>2 x PCIe x4<br>1 x PCIe x16<br>1 x SDIO   |
| <b>I/O</b>            | <b>Ethernet</b>          | 1 x CEI 10Gb LAN Mini MEZZ slot, support 10GBASE-KR Ethernet MAC Speed<br>2 x 1GbE LAN (RJ-45) (one from module; another from BMC for remote management) |
|                       | <b>USB</b>               | 4 x USB 3.2 type A<br>4 x USB 2.0  |
| <b>INTERNAL I/O</b>   | <b>Serial</b>            | 1 x Serial Interface Connector (TX/RX)   |
|                       | <b>Display</b>           | 1 x VGA from BMC   |
|                       | <b>SATA</b>              | 2 x SATA 3.0   |
|                       | <b>DIO</b>               | 1 x 8-bit DIO  |
|                       | <b>LPC</b>               | 1 x LPC  |
|                       | <b>SMBus</b>             | 1 x SMBus  |
|                       | <b>I2C</b>               | 1 x I2C  |
| <b>POWER</b>          | <b>Type</b>              | 12V, 5VSB, VCC_RTC (ATX mode)<br>12V, VCC_RTC (AT mode)  |
|                       | <b>Connector</b>         | 4-pin ATX 12V power<br>24-pin ATX power  |
|                       | <b>RTC Battery</b>       | CR2032 Coin Cell   |
| <b>ENVIRONMENT</b>    | <b>Temperature</b>       | <b>Operating:</b> -20 to 70°C<br><b>Storage:</b> -40 to 85°C   |
|                       | <b>Humidity</b>          | <b>Operating:</b> 5 to 90% RH<br><b>Storage:</b> 5 to 90% RH   |
|                       | <b>MTBF</b>              | TBD  |
| <b>MECHANICAL</b>     | <b>Dimensions</b>        | microATX Form Factor<br>244mm (9.6") x 244mm (9.6")  |
|                       | <b>Compliance</b>        | PICMG COM Express® R3.1, Type 7 basic & compact modules  |
| <b>CERTIFICATIONS</b> | <b>Certifications</b>    | CE, FCC, RoHS  |

## ORDERING INFORMATION

| Model Name | Part Number      | BMC | 10G | GbE | USB 3.2 | USB 2.0 | Power  | Thermal | OP Temp.    |
|------------|------------------|-----|-----|-----|---------|---------|--------|---------|-------------|
| COM336     | 770-COM3361-000G | Yes | Yes | 2   | 4       | 4       | ATX/AT | Active  | -20 to 70°C |
| COM336     | 770-COM3361-100G | N/A |     |     |         |         |        |         | -40 to 85°C |

| Model Name   | Part Number      | LAN PHY                 | LAN connector |
|--------------|------------------|-------------------------|---------------|
| MMZ10G-X5574 | 770-MMZ10G1-000G | X557-AT4                | RJ45 x4       |
| MMZ10G-NSFP  | 770-MMZ10G1-200G | Native SFP+ from module | SFP+ x4       |

## PACKING LIST

|   |                 |
|---|-----------------|
| • 1 COM336 board                          |                 |
| • 1 Serial ATA data cable (Length: 500mm) | 332-553001-005G |
| • Standoff (M2.5*12)                      | A33-525019-A20G |

## OPTIONAL ITEMS

|  |                 |
|--|-----------------|
| • Serial ATA data cable (Length: 500mm)  | 332-553001-005G |
| • LPC EXT-RS232 module (4 x RS232 ports) | 770-EXTRS1-000G |