

## Qualified Vendors List (QVL)

Memory modules listed below are for reference only. Due to massive memory models on the market, we can only verify some of them  
 以下所列的記憶體模組僅供參考，因市面上的記憶體模組眾多，我們無法一一驗證

**Model Name: Z77X-UP5 TH**

### DDR3 2500 (Downgrade to DDR3 2400)

| Module Supplier | Size | Module P/N.     | SS/DS | DIMM Socket |        |        |        |
|-----------------|------|-----------------|-------|-------------|--------|--------|--------|
|                 |      |                 |       | DDR3_1      | DDR3_3 | DDR3_2 | DDR3_4 |
| GEIL            | 2GB  | GET34GB2500C9DC | DS    | v           | v      | v      | v      |

### DDR3 2400

| Module Supplier | Size | Module P/N.           | SS/DS | DIMM Socket |        |        |        |
|-----------------|------|-----------------------|-------|-------------|--------|--------|--------|
|                 |      |                       |       | DDR3_1      | DDR3_3 | DDR3_2 | DDR3_4 |
| A-DATA          | 2GB  | AX3U2400GC4G10-DG2    | SS    | v           | v      | v      | v      |
| Apacer          | 2GB  | 78.BAGF3.AFD0C        | DS    | v           | v      | v      | v      |
| CORSAIR         | 2GB  | CMGTX1                | SS    | v           | v      | v      | v      |
| CORSAIR         | 2GB  | CMGTX8                | SS    | v           | v      | v      | v      |
| G.SKILL         | 2GB  | F3-19200CL9D-4GBPIS   | DS    | v           | v      | v      | v      |
| G.SKILL         | 2GB  | F3-19200CL8D-4GBPID   | DS    | v           | v      | v      | v      |
| Kingston        | 2GB  | KHX2400C11D3K4/8GX    | SS    | v           | v      | v      | v      |
| KingMax         | 2GB  | FLLE88F-C8KLAA        | SS    | v           | v      | v      | v      |
| A-DATA          | 4GB  | AX3U2400GC2G10-DG2    | DS    | v           | v      | v      | v      |
| G.SKILL         | 4GB  | F3-19200CL11Q-16GBZHD | DS    | v           | v      | v      | v      |
| G.SKILL         | 4GB  | F3-19200CL9Q-16GBZHD  | DS    | v           | v      | v      | v      |
| KingMax         | 4GB  | FLLF68F-C8KKAA        | DS    | v           | v      | v      | v      |
| G.SKILL         | 8GB  | F3-2400C10Q-32GTX     | DS    | v           |        | v      | v      |

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### DDR3 2200~2250

| Module Supplier | Size | Module P/N.        | SS/DS | DIMM Socket |        |        |        |
|-----------------|------|--------------------|-------|-------------|--------|--------|--------|
|                 |      |                    |       | DDR3_1      | DDR3_3 | DDR3_2 | DDR3_4 |
| G.SKILL         | 2GB  | F3-17600CL7Q-8GBPI | DS    | v           |        | v      | v      |
| GEIL            | 2GB  | GU38GB2200C9QC     | DS    | v           | v      | v      | v      |
| Winchip         | 2GB  | DFC2GBIILK2200E    | DS    | v           |        | v      | v      |

### DDR3 2133

| Module Supplier | Size | Module P/N.           | SS/DS | DIMM Socket |        |        |        |
|-----------------|------|-----------------------|-------|-------------|--------|--------|--------|
|                 |      |                       |       | DDR3_1      | DDR3_3 | DDR3_2 | DDR3_4 |
| A-DATA          | 2GB  | AX3U2133GC2G9B-DG2    | SS    | v           | v      | v      | v      |
| CORSAIR         | 2GB  | CMT4GX3M2A2133C9      | DS    | v           |        | v      | v      |
| A-DATA          | 4GB  | AX3U2133GC4G9B-DG2    | DS    | v           | v      | v      | v      |
| Apacer          | 4GB  | 78.BAGE4.AFD0C        | DS    | v           | v      | v      | v      |
| CORSAIR         | 4GB  | CMZ16GX3M4X2133C11R   | DS    | v           | v      | v      | v      |
| G.SKILL         | 4GB  | F3-17000CL9Q-16GBXLD  | DS    | v           | v      | v      | v      |
| G.SKILL         | 4GB  | F3-17000CL9Q-16GBZH   | DS    | v           | v      | v      | v      |
| Kingston        | 4GB  | KHX2133C11D3K4/16GX   | DS    | v           | v      | v      | v      |
| Kingston        | 8GB  | KHX2133C11D3T1K2/16GX | DS    | v           | v      | v      | v      |

### DDR3 2000

| Module Supplier | Size | Module P/N.         | SS/DS | DIMM Socket |        |        |        |
|-----------------|------|---------------------|-------|-------------|--------|--------|--------|
|                 |      |                     |       | DDR3_1      | DDR3_3 | DDR3_2 | DDR3_4 |
| Team            | 1GB  | TXD32048M2000HC9    | SS    | v           | v      | v      | v      |
| G.SKILL         | 1GB  | F3-1600CL9T-3GBPI-B | DS    | v           | v      | v      | v      |
| Apacer          | 2GB  | 78.AAGD5.9KD        | DS    | v           | v      | v      | v      |
| GEIL            | 2GB  | GE34GB2000C9DC      | DS    | v           | v      | v      | v      |

|         |     |                     |    |   |   |   |   |
|---------|-----|---------------------|----|---|---|---|---|
| GEIL    | 2GB | GB34GB2000C9DC      | DS | v |   | v | v |
| G.SKILL | 2GB | F3-16000CL6Q-8GBPIS | DS | v | v | v | v |
| G.SKILL | 2GB | F3-16000CL9D-4GBFLS | DS | v | v | v | v |
| Winchip | 2GB | GDF2GB28L100C9      | DS | v | v | v | v |
| mushkin | 2GB | 996696es            | DS | v | v | v | v |
| OCZ     | 4GB | OCZ3P2000LV8GK      | DS | v | v | v | v |
| A-DATA  | 4GB | AX3U2000GC4G9B-DG2  | DS | v | v | v | v |
| PATRIOT | 4GB | PX7312G2000ELK      | DS | v | v | v | v |
| Winchip | 4GB | DFC4GBIILK20900E    | DS | v | v | v | v |

#### DDR3 1866

| Module Supplier | Size | Module P/N.             | SS/DS | DIMM Socket |        |        |        |
|-----------------|------|-------------------------|-------|-------------|--------|--------|--------|
|                 |      |                         |       | DDR3_1      | DDR3_3 | DDR3_2 | DDR3_4 |
| CORSAIR         | 4GB  | CMZ16GX3M4X1866C9R      | DS    | v           | v      | v      | v      |
| Crucial         | 4GB  | BLE4G3D1869DE1TX0.16FMD | DS    | v           | v      | v      | v      |
| GEIL            | 4GB  | GOC38GB1866C9DC         | DS    | v           | v      | v      | v      |
| G.SKILL         | 4GB  | F3-14900CL9Q-16GBZL     | DS    | v           | v      | v      | v      |
| G.SKILL         | 4GB  | F3-14900CL9D-8GBSR      | DS    | v           | v      | v      | v      |
| Kingston        | 4GB  | KHX1866C9D3K2/8GX       | DS    | v           | v      | v      | v      |
| PATRIOT         | 4GB  | PXD38G1866ELK           | DS    | v           | v      | v      | v      |
| Kingston        | 4GB  | KVR1866D3N11/4G         | DS    | v           | v      | v      |        |
| CORSAIR         | 8GB  | CMT32GX3M4X1866C9       | DS    | v           | v      | v      | v      |

#### DDR3 1600

| Module Supplier | Size | Module P/N.      | SS/DS | DIMM Socket |        |        |        |
|-----------------|------|------------------|-------|-------------|--------|--------|--------|
|                 |      |                  |       | DDR3_1      | DDR3_3 | DDR3_2 | DDR3_4 |
| A-DATA          | 1GB  | AX3U1600PB1G8-2P | DS    | v           | v      | v      | v      |
| KingMax         | 1GB  | FLGD45F-B8KG9    | SS    | v           | v      | v      | v      |

|              |     |                      |    |   |   |   |   |
|--------------|-----|----------------------|----|---|---|---|---|
| Winchip      | 1GB | GDF1GB18L150C9       | SS | v |   | v | v |
| Winchip      | 2GB | DFC2GBHHLG16900E     | DS | v | v | v | v |
| Winchip      | 2GB | DFC2GBIILJ16800E     | DS | v | v | v | v |
| KingMax      | 2GB | FLGE85F-B8KG9        | DS | v | v | v | v |
| A-DATA       | 2GB | DDR3 1600G           | DS | v | v | v | v |
| AMD          | 2GB | AE32G1609U1-U        | SS | v | v | v | v |
| CORSAIR      | 2GB | HX3X12G1600C9        | DS | v | v | v | v |
| CORSAIR      | 2GB | CMZ8GX3M4X1600C9     | DS | v | v | v | v |
| elixir       | 2GB | M2X2G64CB88G7N-DG    | SS | v | v | v | v |
| GEIL         | 2GB | GET34GB1600C7DC      | DS | v | v | v | v |
| GEIL         | 2GB | GET38GB1600C9QC      | DS | v | v | v | v |
| G.SKILL      | 2GB | F3-12800CL9D-4GBXL   | DS | v | v | v | v |
| Kingston     | 2GB | KHX1600C9D3K2/4GX    | DS | v | v | v | v |
| KINGTIGER    | 2GB | KTG2G1600PG3         | DS | v | v | v | v |
| OCZ          | 2GB | OCZ3P1600C9ELV6GK    | DS | v | v | v | v |
| OCZ          | 2GB | OCZ3P1600ELV4GK      | DS | v | v | v | v |
| OCZ          | 2GB | OCZ3X1600R2LV6GK     | DS | v | v | v | v |
| OCZ          | 2GB | OCZ3P1600LV8GK       | DS | v | v | v | v |
| mushkin      | 2GB | 995659               | DS | v | v | v | v |
| SUPER TALENT | 2GB | WP160UX4G9           | DS | v | v | v | v |
| GEIL         | 2GB | GET34GB1600C7DC      | DS | v | v | v | v |
| G.SKILL      | 2GB | F3-12800CL7D-4GBECO  | DS | v | v | v | v |
| Team         | 2GB | TXD36144M1600HC8TC-D | DS | v | v | v | v |
| Team         | 2GB | TXD32048M1600HC8-D   | DS | v | v | v | v |
| Transcend    | 4GB | JM1600KLN-8GK        | DS | v | v | v | v |
| Transcend    | 4GB | TS512MLK64V6N        | DS | v | v | v | v |
| PATRIOT      | 4GB | PX7312G1600LLK       | DS | v | v | v | v |
| PATRIOT      | 4GB | PGD38G1600ELK        | DS | v | v | v | v |
| Samsung      | 4GB | M379B5273DH0-YK0     | DS | v | v | v | v |

|           |     |                        |    |   |   |   |   |
|-----------|-----|------------------------|----|---|---|---|---|
| Kingston  | 4GB | KHX1600C9D3/4G         | DS | v | v | v | v |
| Kingston  | 4GB | KHX1600C9D3K8/32GX     | DS | v | v | v | v |
| Kingston  | 4GB | KHX1600C9D3LK2/8GX     | DS | v | v | v | v |
| Kingston  | 4GB | KHX1600C9D3K2/8GX      | DS | v | v | v | v |
| G.SKILL   | 4GB | F3-12800CL9Q-16GBXL    | DS | v | v | v | v |
| G.SKILL   | 4GB | F3-12800CL7Q-16GBXH    | DS | v | v | v | v |
| G.SKILL   | 4GB | F3-12800CL9Q-16GBZL    | DS | v | v | v | v |
| G.SKILL   | 4GB | F3-12800CL9S-4GBXL     | DS | v | v | v | v |
| GEIL      | 4GB | GEP38GB1750C9DC        | DS | v | v | v | v |
| elixir    | 4GB | M2X4G64CB8HG5N-DG      | DS | v | v | v | v |
| CORSAIR   | 4GB | CML16GX3M4X1600C8      | DS | v | v | v | v |
| AMD       | 4GB | AE34G1609U2-U          | DS | v | v | v | v |
| A-DATA    | 4GB | AX3U1600GC4G9-BG       | DS | v | v | v | v |
| Apacer    | 4GB | 78.B1GE3.9L10C         | DS | v | v | v | v |
| AMD       | 4GB | AP38G1608U2K           | DS | v | v | v | v |
| CORSAIR   | 4GB | CMD4GX3M2B1600C8       | DS | v | v | v | v |
| CORSAIR   | 4GB | CMZ16GX3M4X1600C9      | DS | v | v | v | v |
| CORSAIR   | 4GB | CMZ8GX3M2A1600C9       | DS | v | v | v | v |
| Crucial   | 4GB | BLT4G3D1608DT1TX0.16FM | DS | v | v | v | v |
| KingMax   | 4GB | FLGF65F-C8KL9A         | DS | v | v | v | v |
| Transcend | 8GB | TS1GLK72V6H            | DS | v | v | v | v |
| CORSAIR   | 8GB | CMZ32GX3M4X1600C10     | DS | v | v | v | v |

### DDR3 1333

| Module Supplier | Size | Module P/N.       | SS/DS | DIMM Socket |        |        |        |
|-----------------|------|-------------------|-------|-------------|--------|--------|--------|
|                 |      |                   |       | DDR3_1      | DDR3_3 | DDR3_2 | DDR3_4 |
| Crucial         | 1GB  | CT12864BA1339.8FF | SS    | v           | v      | v      | v      |
| OCZ             | 1GB  | OCZ3P13332GK      | DS    | v           | v      | v      | v      |

|           |     |                     |    |   |   |   |   |
|-----------|-----|---------------------|----|---|---|---|---|
| S-POWER   | 1GB | SP001GBLTU133S02    | SS | v |   | v | v |
| Winchip   | 1GB | GDF1GB68L150C9      | DS | v |   | v | v |
| S-POWER   | 2GB | SP002GBLTU133V02    | DS | v | v | v | v |
| Transcend | 2GB | JM1333KLN-2G        | DS | v | v | v | v |
| Transcend | 2GB | TS256MLK64V3NL      | DS | v | v | v | v |
| OCZ       | 2GB | OCZ3P1333C9ELV4GK   | DS | v | v | v | v |
| A-DATA    | 2GB | DDR3 1333 2G        | DS | v | v | v | v |
| AMD       | 2GB | AE32G1339U1-U       | SS | v | v | v | v |
| A-DATA    | 2GB | AM2U139C2P1         | SS | v | v | v | v |
| Apacer    | 2GB | 78.A1GC6.9L1        | DS | v | v | v | v |
| Apacer    | 2GB | AU02GFA33C9NBGC     | DS | v | v | v | v |
| CORSAIR   | 2GB | CMV4GX3M2A1333C9    | SS | v | v | v | v |
| CORSAIR   | 2GB | CMX6GX3M3A1333C8    | DS | v | v | v | v |
| elixir    | 2GB | M2F2G64CB88G7N-CG   | SS | v | v | v | v |
| GEIL      | 2GB | AF16H5664H2AHTCKT   | DS | v | v | v | v |
| Kingston  | 2GB | KVR1333D3N9/2G-SP   | DS | v | v | v | v |
| Kingston  | 2GB | KVR1333D3N9/2G      | DS | v | v | v | v |
| KingMax   | 2GB | FLFE85F-C8KM9       | SS | v | v | v | v |
| KINGTIGER | 2GB | KTG2G1333PW3        | DS | v | v | v | v |
| PQI       | 2GB | MFACR423PA0103      | DS | v | v | v | v |
| PATRIOT   | 2GB | PGS34G1333LLKA      | DS | v | v | v | v |
| Samsung   | 2GB | M378B5773CHO-CH9    | SS | v | v | v | v |
| Team      | 2GB | TED32048M1333HC9    | DS | v | v | v | v |
| Winchip   | 4GB | GDF4GB28L150C9-24GK | DS | v | v | v | v |
| Transcend | 4GB | JM1333KLN-4G        | DS | v | v | v | v |
| Transcend | 4GB | TS512MLK64V3NL      | DS | v | v | v | v |
| Samsung   | 4GB | M378B5273DHO-CH9    | DS | v | v | v | v |
| Ramax     | 4GB | RMR1870EC58E9F      | DS | v | v | v | v |
| KINGTIGER | 4GB | T10KA0C8315         | DS | v | v | v | v |

|          |     |                      |    |   |   |   |   |
|----------|-----|----------------------|----|---|---|---|---|
| KingMax  | 4GB | FLFF65F-C8KM9        | DS | v | v | v | v |
| Kingston | 4GB | KVR1333D3N9/4G       | DS | v | v | v | v |
| GEIL     | 4GB | GVP34GB1333C9SC      | DS | v | v | v | v |
| GEIL     | 4GB | GEP38GB1500C9DC      | DS | v | v | v | v |
| G.SKILL  | 4GB | F3-10666CL9D-8GBRL   | DS | v | v | v | v |
| G.SKILL  | 4GB | F3-10666CL7D-8GBRH   | DS | v | v | v | v |
| elixir   | 4GB | M2F4G64CB8HD5N-CG    | DS | v | v | v | v |
| Apacer   | 4GB | AU04GFA33C9QBGC      | DS | v | v | v | v |
| A-DATA   | 4GB | DDR3 1333 4G         | DS | v | v | v | v |
| A-DATA   | 4GB | AM2U139C4P2          | DS | v | v | v | v |
| AMD      | 4GB | AE34G1339U2-U        | DS | v | v | v | v |
| OCZ      | 4GB | OCZ3G1333LV8GK       | DS | v |   | v | v |
| A-DATA   | 8GB | SU3U133W8G9-B        | DS | v | v | v | v |
| A-DATA   | 8GB | AD3U133W8G9-B        | DS | v | v | v | v |
| Crucial  | 8GB | CT102464BA1339.16FDD | DS | v | v | v | v |
| Kingston | 8GB | KVR1333D3N9H/8G      | DS | v | v | v | v |
| Samsung  | 8GB | M378B1G73AHO         | DS | v | v | v | v |

#### DDR3 1066

| Module Supplier | Size | Module P/N.       | SS/DS | DIMM Socket |        |        |        |
|-----------------|------|-------------------|-------|-------------|--------|--------|--------|
|                 |      |                   |       | DDR3_1      | DDR3_3 | DDR3_2 | DDR3_4 |
| elixir          | 2GB  | M2Y2G64CB8HC9N-BE | DS    | v           | v      | v      | v      |
| PATRIOT         | 1GB  | PSD31G106681      | SS    | v           |        | v      | v      |
| Transcend       | 1GB  | TS128MLK64V1U     | SS    | v           |        | v      | v      |