

# Intel Mobile CPU Roadmap

| System Price                  | 2004         |                             |    |    | 2005 |    |    |    | 2006  |    |                             |                | 2007 |    |    |    | 2008                   |    |    |                                | 2009                                    |                   | TDP                           | System          | CPU Price      |                                       |  |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          |                               |                        |              |              |                                 |                               |                                 |                         |       |
|-------------------------------|--------------|-----------------------------|----|----|------|----|----|----|---|----|-----------------------------|----------------|------|----|----|----|------------------------|----|----|--------------------------------|---|-------------------|-------------------------------|-----------------|----------------|---------------------------------------|--|--|-----------------------|--------------------------------|--|-----------------------------|-------------------------|----------------|-----------------------------------|-------------------|--------------------------------|--------------------------|-------------------------------|------------------------|--------------|--------------|---------------------------------|-------------------------------|---------------------------------|-------------------------|-------|
|                               | Q4           | Q1                          | Q2 | Q3 | Q4   | Q1 | Q2 | Q3 | Q4  | Q1 | Q2                          | Q3             | Q4   | Q1 | Q2 | Q3 | Q4                     | Q1 | Q2 | 2H                             |   |                   |                               |                 |                |                                       |  |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          |                               |                        |              |              |                                 |                               |                                 |                         |       |
| Quad core Extreme             |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Core2 Extreme<br>2.53GHz(QX9300)        | 2.53GHz(QX9300)   | 2.53GHz(QX9300)               | 2.53GHz(QX9300) |                |                                       |  |  |                       |                                | Quad-core/PCIe x16                       | QX<br>45W<br>(55W)          | Quad core Extreme       | \$1000         |                                   |                   |                                |                          |                               |                        |              |              |                                 |                               |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Penryn QC<br>Montevina                  |                   |                               |                 |                |                                       |  |  |                       | Clarksfield<br>55W<br>Calpella |  | X<br>.45W<br>(55W)          | Dual/Quad core Extreme  | \$750          |                                   |                   |                                |                          |                               |                        |              |              |                                 |                               |                                 |                         |       |
| Dual core Extreme             |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Merom 4M<br>Santa Rosa<br>2.6GHz(X7800) | 2.8GHz(X7900)     |                               |                 |                |                                       |  |  | Penryn 6M             | Penryn 6M<br>3.06GHz(X9100)    | Core2 Extreme<br>3.06GHz(X9100)          | Penryn QC<br>2.26GHz(Q9100) |                         |                | Dual-core/PCIe x16 /Graphics core | T<br>35W<br>(45W) | Performance                    | \$500                    |                               |                        |              |              |                                 |                               |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Core2 Extreme<br>2.6GHz(X7800)          | 2.8GHz(X7900)     |                               |                 |                |                                       |  |  | Santa Rosa<br>Refresh | Montevina                      | Core2 Duo<br>2.8GHz(T9600)               | 2.8GHz(T9600)               | 2.26GHz(Q9100)          | 2.26GHz(Q9100) |                                   |                   | Clarksfield<br>45W<br>Calpella | Performance              | \$500                         |                        |              |              |                                 |                               |                                 |                         |       |
| Performance                   | 2.1GHz(T765) | Dothan 533<br>2.13GHz(T770) |    |    |      |    |    |    | Napa<br>Yonah Dual-Core2M<br>2.16GHz(T2600) |    | 2.33GHz(T7600)              | 2.33GHz(T7600) |      |    |    |    | Penryn 6M<br>Montevina |    |    | Clarksfield<br>45W<br>Calpella | T<br>35W<br>(45W)                       | Mainstream 3      | \$31x                         |                 |                |                                       |  |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          |                               |                        |              |              |                                 |                               |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                |   | 2.26GHz(T7800)    | 2.16GHz(T2600)                | 2.33GHz(T2700)  | 2.33GHz(T2700) |                                       |  |  |                       |                                |  | Penryn 6M 35W               | 2.53GHz(T9400)          | 2.53GHz(T9400) | 2.53GHz(T9400)                    | >2.53GHz(T9400)   | >2.53GHz(T9400)                | Mainstream 3             | \$31x                         |                        |              |              |                                 |                               |                                 |                         |       |
| Mainstream 3                  | 2GHz(T755)   | 2GHz(T760)                  |    |    |      |    |    |    | Core Duo<br>2GHz(T2500)                     |    | Core2 Duo<br>2.16GHz(T7400) |                |      |    |    |    |                        |    |    |                                | Clarksfield<br>45W<br>Calpella          | P<br>25W<br>(35W) | Power Optimized Performance 3 | \$34x           |                |                                       |  |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          |                               |                        |              |              |                                 |                               |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                |   |                   | 2.13GHz(T770)                 | 2GHz(T2500)     | 2.16GHz(T2600) | 2.16GHz(T2600)                        |  |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          | Power Optimized Performance 3 | \$34x                  |              |              |                                 |                               |                                 |                         |       |
| Mainstream 2                  | 1.8GHz(T745) | 1.86GHz(T750)               |    |    |      |    |    |    | Yonah Dual-Core2M<br>1.83GHz(T2400)         |    | Merom 4M<br>2GHz(T7200)     |                |      |    |    |    |                        |    |    |                                | Clarksfield<br>45W<br>Calpella          | P<br>25W<br>(35W) | Power Optimized Performance 2 | \$240           |                |                                       |  |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          |                               |                        |              |              |                                 |                               |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                |   |                   | 1.86GHz(T750)                 | 1.83GHz(T2400)  | 2GHz(T7200)    | 2GHz(T7200)                           |  |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          | Power Optimized Performance 2 | \$240                  |              |              |                                 |                               |                                 |                         |       |
| Mainstream 1                  | 1.7GHz(T735) | 1.73GHz(T740)               |    |    |      |    |    |    | Yonah Dual-Core2M<br>1.66GHz(T2300)         |    | Merom 2M<br>1.83GHz(T5600)  |                |      |    |    |    |                        |    |    |                                | Clarksfield<br>45W<br>Calpella          | P<br>25W<br>(35W) | Power Optimized Performance 1 | \$200           |                |                                       |  |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          |                               |                        |              |              |                                 |                               |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                |   |                   | 1.73GHz(T740)                 | 1.66GHz(T2300)  | 1.83GHz(T5600) | 1.83GHz(T5600)                        |  |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          | Power Optimized Performance 1 | \$200                  |              |              |                                 |                               |                                 |                         |       |
| Value                         |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Celeron M<br>1.4GHz(360)                |                   | 1.5GHz(370)                   | 1.5GHz(370)     | 1.6GHz(380)    | 1.6GHz(380)                           | Celeron M (Yonah)<br>1.73GHz(430)      |  |                       |                                | Celeron M<br>Napa Refresh<br>1.6GHz(520) |                             | Merom-L<br>1.73GHz(530) | 2GHz(550)      | 2GHz(550)                         | 2.13GHz(560)      | 2.26GHz(570)                   | Nehalem / Core MA<br>境界線 |                               | 31W                    | Value 3      |              |                                 |                               |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Dothan<br>1.3GHz(350)                   | 1.4GHz(360)       | 1.4GHz(360)                   | 1.5GHz(370)     | 1.5GHz(370)    | Yonah Single-core 1M<br>1.6GHz(420)   |  |  |                       | 1.86GHz(440)                   |  | 1.86GHz(440)                | 1.6GHz(520)             | 1.86GHz(540)   | 1.86GHz(540)                      | 2GHz(550)         | 2.13GHz(560)                   | 2.16GHz(585)             | 2.16GHz(585)                  |                        | 2.16GHz(585) | 2.16GHz(585) | Value 2                         |                               |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Banias<br>1.5GHz(340)                   | 1.3GHz(350)       | 1.3GHz(350)                   | 1.4GHz(360)     | 1.4GHz(360)    | 1.46GHz(410)                          |  |  |                       | 1.73GHz(430)                   |  | 1.73GHz(430)                | 1.86GHz(440)            | 1.73GHz(530)   | 1.73GHz(530)                      | 1.86GHz(540)      | 2GHz(550)                      | 2.00GHz(575)             | 2.00GHz(575)                  |                        | 2.00GHz(575) | 2.00GHz(575) | Value 1                         |                               |                                 |                         |       |
| Performance Low Voltage       |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Pentium M LV<br>1.4GHz(L738)            |                   | 1.5GHz(L758)                  | 1.5GHz(L758)    | 1.6GHz(L778)   | 1.6GHz(L778)                          | Core Duo LV<br>1.66GHz(L2400)          |  |                       |                                | Core2 Duo LV<br>1.5GHz(L7400)            |                             | 1.6GHz(L7500)           | 1.6GHz(L7500)  | 1.6GHz(L7500)                     | 1.6GHz(L7500)     | 1.8GHz(L7700)                  | 1.8GHz(L7700)            | 1.86GHz(SL9400)               | Penryn 6M<br>Montevina | Core2 Duo    | SL<br>17W    | Power Optimized Performance SFF | \$2xx                         |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Dothan<br>1.4GHz(L738)                  | 1.5GHz(L758)      | 1.5GHz(L758)                  | 1.6GHz(L778)    | 1.6GHz(L778)   | Yonah Dual-Core2M<br>1.5GHz(L2300)    |  |  |                       | Merom LV<br>1.33GHz(L7200)     |  | 1.4GHz(L7300)               | 1.4GHz(L7300)           | 1.4GHz(L7300)  | 1.4GHz(L7300)                     | 1.6GHz(L7500)     | 1.6GHz(L7500)                  | 1.6GHz(L7500)            | 1.6GHz(L7500)                 |                        |              |              | 1.6GHz(L7500)                   | 1.86GHz(SL9400)               | Power Optimized Performance SFF | \$2xx                   |       |
| Performance Ultra Low Voltage |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Pentium M ULV<br>1.1GHz(U733)           |                   | 1.2GHz(U753)                  | 1.2GHz(U753)    | 1.2GHz(U753)   | 1.2GHz(U753)                          | Core Solo ULV<br>1.2GHz(U1400)         |  |                       |                                | Core2 Duo ULV<br>1.2GHz(U7600)           |                             | 1.2GHz(U7600)           | 1.2GHz(U7600)  | 1.2GHz(U7600)                     | 1.2GHz(U7600)     | 1.33GHz(U7700)                 | 1.33GHz(U7700)           | 1.4GHz(SU9400)                | Penryn 3M<br>Montevina | Core2 Duo    | U<br>10W     | Performance Ultra Low Voltage   | \$2xx                         |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Dothan<br>1.1GHz(U733)                  | 1.2GHz(U753)      | 1.2GHz(U753)                  | 1.2GHz(U753)    | 1.2GHz(U753)   | Yonah Dual-Core2M<br>1.06GHz(U2400)   |  |  |                       | Merom ULV<br>1.06GHz(U2400)    |  | 1.06GHz(U2400)              | 1.06GHz(U2400)          | 1.06GHz(U2400) | 1.06GHz(U2400)                    | 1.06GHz(U2400)    | 1.06GHz(U2400)                 | 1.06GHz(U2400)           | 1.06GHz(U2400)                |                        |              |              | 1.2GHz(SU9400)                  | Performance Ultra Low Voltage | \$2xx                           |                         |       |
| Value Ultra Low Voltage       |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Celeron M ULV<br>1GHz(U373)             |                   | 1GHz(U383)                    | 1GHz(U383)      | 1GHz(U383)     | 1GHz(U383)                            | Celeron M ULV (Yonah)<br>1.06GHz(U423) |  |                       |                                | Napa Refresh<br>0.93GHz(U2100)           |                             | 1.2GHz(U443)            | 1.2GHz(U443)   | 1.2GHz(U443)                      | 1.2GHz(U443)      | 1.2GHz(U443)                   | 1.2GHz(U443)             | 1.2GHz(U443)                  | 1.2GHz(U443)           | 1.2GHz(U443) | 1.2GHz(U443) | Penryn SC 3M<br>Montevina       | Core2 Solo                    | U<br>5.5W                       | Value Ultra Low Voltage | \$2xx |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Dothan<br>900MHz(U353)                  | 1GHz(U373)        | 1GHz(U383)                    | 1GHz(U383)      | 1GHz(U383)     | Yonah Single-core 1M<br>1.06GHz(U423) |  |  |                       | Merom ULV<br>0.93GHz(U2100)    |  | 1.2GHz(U443)                | 1.2GHz(U443)            | 1.2GHz(U443)   | 1.2GHz(U443)                      | 1.2GHz(U443)      | 1.2GHz(U443)                   | 1.2GHz(U443)             | 1.2GHz(U443)                  | 1.2GHz(U443)           | 1.2GHz(U443) | 1.2GHz(U443) |                                 |                               |                                 | Value Ultra Low Voltage | \$2xx |
| Basic Mobile                  |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Atom<br>1.6GHz(N270)                    |                   | 1.6GHz(N270)                  | 1.6GHz(N270)    | 1.6GHz(N270)   | 1.6GHz(N270)                          | Diamondville / Core MA<br>境界線          |  |                       |                                | Pineview SC                              |                             |                         |                |                                   |                   | Pineview SC                    | N<br>4W                  | Basic Mobile                  | \$4x                   |              |              |                                 |                               |                                 |                         |       |
|                               |              |                             |    |    |      |    |    |    |   |    |                             |                |      |    |    |    |                        |    |    |                                | Diamondville SC                         |                   | 1.6GHz(N270)                  | 1.6GHz(N270)    | 1.6GHz(N270)   | 1.6GHz(N270)                          | Pineview SC                            |  |                       |                                |  |                             |                         |                |                                   |                   |                                |                          | Basic Mobile                  | \$4x                   |              |              |                                 |                               |                                 |                         |       |

- Dual Core**: Celeron M(Banias) 512KB L2, FSB 400MHz; Pentium M(Dothan) 2MB L2, FSB 533MHz; Yonah Dual-Core2MB L2, FSB667/533; Merom Dual-core 4/2MB L2 FSB667; Penryn (Santa Rosa); Penryn Quad core; Clarksfield
- Single Core**: Celeron M(Dothan) 1MB L2, FSB 400MHz; Pentium M(Dothan) 2MB L2, FSB 400MHz; Yonah Single-Core2MB L2, FSB667/533; Merom Dual-core 4/2MB L2 FSB800; Penryn (Montevina); Diamondville SC; Auburndale
- Celeron M(Dothan) 512KB L2, FSB 400MHz; Pentium M(Banias) 1MB L2, FSB 400MHz; Yonah Single-core 1MB L2, FSB533; Merom-L (Santa Rosa); Penryn (Montevina); Pineview SC
- Merom-L (Montevina)