

 **Product Features Overview**
**08-Aug-2006**

| <b>Product</b>                     | <b>Target CPU's</b>     | <b>Code Memory Size</b> | <b>Code Browser</b> | <b>Code Compressor™</b> | <b>Debuggers</b>                             | <b>Application Builder</b> | <b>Optir</b>          |
|------------------------------------|-------------------------|-------------------------|---------------------|-------------------------|----------------------------------------------|----------------------------|-----------------------|
| <b>ICCV7 for AVR: Standard</b>     | Atmel AVR's & MegaAVR's | up to 64K bytes         | yes                 | no                      | AVR Studio, Flash Studio+                    | yes                        | re allc pe            |
| <b>ICCV7 for AVR: Advanced</b>     | Atmel AVR's & MegaAVR's | up to 128K bytes        | yes                 | yes                     | AVR Studio, Flash Studio+                    | yes                        | re allc pe            |
| <b>ICCV7 for AVR: Professional</b> | Atmel AVR's & MegaAVR's | up to 128K bytes        | yes                 | yes                     | AVR Studio, Flash Studio+                    | yes                        | G optir (M re allc pe |
| <b>ICCV7 for ARM: Standard</b>     | ARM7, ARM9              | unlimited               | yes                 | no                      | any 3rd party debuggers supporting ELF/DWARF | yes (limited devices)      | re allc pe            |
| <b>ICCV7 for ARM: Advanced</b>     | ARM7, ARM9              | unlimited               | yes                 | no                      | any 3rd party debuggers supporting ELF/DWARF | yes (limited devices)      | re allc pe            |
| <b>ICCV7 for ARM: Professional</b> | ARM7, ARM9              | unlimited               | yes                 | no                      | any 3rd party debuggers supporting ELF/DWARF | yes (limited devices)      | G optir (M re allc pe |
|                                    | <b>Target CPU's</b>     | <b>Code Memory Size</b> | <b>Code Browser</b> | <b>Code Compressor</b>  | <b>Debuggers</b>                             | <b>Application Builder</b> | <b>Optir</b>          |
| <b>ICC12 Standard</b>              | Freescall HC12          | up to 64K bytes         | yes                 | no                      | NoICE12, Softtools Stingray, P&E ICD12,      | no                         | pe                    |

|                                       |                         |                                                                           |                         |                            |                                                              |                                |                                      |
|---------------------------------------|-------------------------|---------------------------------------------------------------------------|-------------------------|----------------------------|--------------------------------------------------------------|--------------------------------|--------------------------------------|
|                                       |                         |                                                                           |                         |                            | HC12 ICD                                                     |                                |                                      |
| <b>ICC12 Professional</b>             | Freescall<br>HC12       | 4 Mbytes<br>using<br>HC12<br>expanded<br>memory<br>feature                | yes                     | no                         | NoICE12,<br>Softtools<br>Stingray,<br>P&E ICD12,<br>HC12 ICD | no                             | pe                                   |
| <b>ICCV7 for MSP430: Standard</b>     | TI<br>MSP430            | up to 64K<br>bytes                                                        | yes                     | no                         | ICC430<br>built-in                                           | yes                            | re<br>allc<br>pe                     |
| <b>ICCV7 for MSP430: Advanced</b>     | TI<br>MSP430            | up to<br>128K<br>bytes<br>(when<br>support<br>for<br>MSP430X<br>is added) | yes                     | yes                        | ICC430<br>built-in                                           | yes                            | re<br>allc<br>pe                     |
| <b>ICCV7 for MSP430: Professional</b> | TI<br>MSP430            | up to<br>128K<br>bytes<br>(when<br>support<br>for<br>MSP430X<br>is added) | yes                     | yes                        | ICC430<br>built-in                                           | yes                            | G<br>optim<br>(M<br>re<br>allc<br>pe |
|                                       | <b>Target<br/>CPU's</b> | <b>Code<br/>Memory<br/>Size</b>                                           | <b>Code<br/>Browser</b> | <b>Code<br/>Compressor</b> | <b>Debuggers</b>                                             | <b>Application<br/>Builder</b> | <b>Optim</b>                         |
| <b>ICC08 Standard</b>                 | Freescall<br>HC08       | up to 64K<br>bytes                                                        | yes                     | no                         | NoICE08,<br>P&E ICD08                                        | yes (GP32)                     | pee<br>dire<br>adc                   |
| <b>ICC08 Professional</b>             | Freescall<br>HC08       | up to 64K<br>bytes                                                        | yes                     | yes                        | NoICE08,<br>P&E ICD08                                        | yes (GP32)                     | pee<br>dire<br>adc                   |
| <b>ICC11 Standard</b>                 | Freescall<br>HC11       | up to 64K<br>bytes                                                        | yes                     | no                         | NoICE11,<br>P&E HC11<br>debugger                             | no                             | pe                                   |
|                                       | <b>Target<br/>CPU's</b> | <b>Code<br/>Memory<br/>Size</b>                                           | <b>Code<br/>Browser</b> | <b>Code<br/>Compressor</b> | <b>Debuggers</b>                                             | <b>Application<br/>Builder</b> | <b>Optim</b>                         |
|                                       |                         |                                                                           |                         |                            |                                                              |                                | re<br>allc                           |

|                           |                               |                                  |     |    |                                   |                  |                    |
|---------------------------|-------------------------------|----------------------------------|-----|----|-----------------------------------|------------------|--------------------|
| <b>ICctiny</b>            | Atmel<br>1200 and<br>tinyAVRs | limit of<br>devices              | no  | no | AVR studio                        | yes              | per<br>dev<br>elim |
| <b>ICCM8C**</b>           | Cypress<br>Micro<br>PSoC      | limit of<br>devices              | no  | no | Cypress<br>Micro PSoC<br>Designer | PSoC<br>Designer | pe                 |
| <b>ICC16<br/>Standard</b> | Freescale<br>HC16             | up to 2<br>pages of<br>64K bytes | yes | no | P&E ICD16                         | no               | pe                 |

\*\* ICCM8C Sold Directly by Cypress Micro <http://www.cypressmicro.com>

\*\*\* All compilers support interrupt handlers in C, inline asm, device specific instruction generation, simplifications and block level common subexpression elimination

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