

H8 Family

H8 Value Series Renesas Value Series Microcontrollers are low-cost embedded solutions with a 16-bit high performance CPU with up to 128KB of flash memory and high integration of on-chip peripherals.

| Memory Type | ROM Bytes | Data Flash Bytes | RAM Bytes | A/D | D/A | Serial Communication | Timers 8/16/32 | GPIO | Operating Frequency/Supply Voltage | Temperature | Package | Digi-Key Part No. | Price Each | | |
|-------------|--------------|------------------|-----------|--------------|-------------|---------------------------|----------------|------|------------------------------------|--------------|---------|---------------------|------------|------|------|
| | | | | | | | | | | | | | 1 | 25 | 100 |
| ROMless | External ROM | — | 4K | 8-ch. 10-bit | 2-ch. 8-bit | 2 USART, IrDA, Smart Card | 4/3/— | 47 | 25MHz/4.5 - 5.5V | -20°C - 75°C | 100-QFP | HD6413008FBL25NF-ND | 5.10 | 4.08 | 3.45 |
| | | | 8K | 8-ch. 10-bit | 2-ch. 8-bit | 3 USART, Smart Card | 2/6/— | 95 | 25MHz/3.0 - 3.6V | -20°C - 75°C | 128-QFP | DF2327BVFB25V-ND | 10.00 | 8.99 | 7.97 |
| Flash | 128K | — | 4K | 8-ch. 10-bit | 2-ch. 8-bit | 2 USART, IrDA, Smart Card | 4/3/— | 79 | 25MHz/3.0 - 3.6V | -20°C - 75°C | 100-QFP | DF3024FBL25V-ND | 7.98 | 6.39 | 5.39 |
| | | | | | | | | | | | | DF3028FBL25V-ND | 9.55 | 8.58 | 7.61 |
| | | | | | | | | | | | | DF3028FBL25V-ND | 7.98 | 6.39 | 5.39 |
| | | | | | | | | | | | | HD64F3062BFL25L-ND | 7.98 | 6.39 | 5.39 |

H8 Tiny Series

The H8/Tiny series of MCUs provide 16-bit performance and high peripheral integration ideal for many 8-bit applications.

| Memory Type | ROM Bytes | Data Flash Bytes | RAM Bytes | A/D | D/A | Serial Communication | Timers 8/16/32 | GPIO | Operating Frequency/Supply Voltage | Temperature | Package | Digi-Key Part No. | Price Each | | | |
|-------------|-----------|------------------|-----------|---------------|--------------|------------------------|----------------|------|------------------------------------|--------------|---------|-------------------|-------------------|-------|------------------------|-------|
| | | | | | | | | | | | | | 1 | 25 | 100 | |
| Flash | 16K | — | 2K | 4-ch. 10-bit | — | 2 USART | 1/1/— | 34 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | DF36012FPV-ND | 8.38 | 6.71 | 5.66 | |
| | | | | | | | | | | | | 48-QFN | DF36012FTV-ND | 8.38 | 6.71 | 5.66 |
| | | | | | | | | | | | | 48-LQFP | DF36012FXV-ND | 8.38 | 6.71 | 5.66 |
| | | | | | | | | | | | | 48-LQFP | DF36012FYV-ND | 8.38 | 6.71 | 5.66 |
| | | | | | | | | | | | | 64-LQFP | DF36012GFPV-ND | 8.64 | 6.92 | 5.84 |
| | | | | | | | | | | | | 64-LQFP | HD64F36012GFP-ND | 8.64 | 6.92 | 5.84 |
| | | | | | | | | | | | | 64-LQFP | HD64F36012GFPJ-ND | 9.70 | 7.76 | 6.55 |
| | | | | | | | | | | | | 48-QFN | DF36012GFTV-ND | 8.64 | 6.92 | 5.84 |
| | | | | | | | | | | | | 48-LQFP | DF36012GFXV-ND | 8.64 | 6.92 | 5.84 |
| | | | | | | | | | | | | 48-LQFP | DF36012GFV-ND | 8.64 | 6.92 | 5.84 |
| | 32K | — | 2K | 4-ch. 10-bit | — | 2 USART | 1/1/— | 34 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | DF36014FPV-ND | 8.64 | 6.92 | 5.84 | |
| | | | | | | | | | | | | 64-LQFP | DF36014GFPV-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 48-QFN | DF36014GFV-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 64-LQFP | HD64F36014FPJE-ND | 8.86 | 7.98 | 7.08 |
| | | | | | | | | | | | | 64-LQFP | DF36014FPJV-ND | 9.82 | 7.86 | 6.63 |
| | | | | | | | | | | | | 48-LQFP | DF36014FPV-ND | 8.60 | 7.73 | 6.85 |
| | | | | | | | | | | | | 64-LQFP | HD64F36014GFP-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 48-QFN | DF36014GFTV-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 48-LQFP | DF36014GFV-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 48-QFN | DF36014FTV-ND | 8.64 | 6.92 | 5.84 |
| | 16K | — | 2K | 4-ch. 10-bit | — | 3 USART | 1/1/— | 34 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | DF36022FPV-ND | 8.64 | 6.92 | 5.84 | |
| | | | | | | | | | | | | 48-QFN | DF36022FTV-ND | 8.64 | 6.92 | 5.84 |
| | | | | | | | | | | | | 48-LQFP | DF36022FXV-ND | 8.64 | 6.92 | 5.84 |
| | | | | | | | | | | | | 48-LQFP | DF36022FYV-ND | 8.64 | 6.92 | 5.84 |
| | | | | | | | | | | | | 64-LQFP | DF36022GFPV-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 48-QFN | DF36022GFT-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 48-LQFP | DF36022GFV-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 64-LQFP | DF36024FPV-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 48-QFN | DF36024FTV-ND | 8.88 | 7.11 | 6.00 |
| | | | | | | | | | | | | 48-LQFP | DF36024FV-ND | 8.88 | 7.11 | 6.00 |
| | 32K | — | 2K | 4-ch. 10-bit | — | 3 USART | 1/1/— | 34 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | DF36024GFPV-ND | 9.14 | 7.32 | 6.17 | |
| | | | | | | | | | | | | 48-LQFP | DF36024GFV-ND | 9.14 | 7.32 | 6.17 |
| | | | | | | | | | | | | 48-LQFP | DF36024GFV-ND | 9.14 | 7.32 | 6.17 |
| | | | | | | | | | | | | 48-LQFP | DF36024GFV-ND | 9.14 | 7.32 | 6.17 |
| | | | | | | | | | | | | 48-LQFP | DF36024GFV-ND | 9.14 | 7.32 | 6.17 |
| | | | | 64-LQFP | | DF36034FZV-ND | | | | | | 9.34 | 8.39 | 7.44 | | |
| | | | | 64-LQFP | | DF36034GFZV-ND | | | | | | 9.55 | 8.58 | 7.61 | | |
| | | | | 64-QFP | | DF36034GHV-ND | | | | | | 9.55 | 8.58 | 7.61 | | |
| | | | | 64-QFP | | DF36034HV-ND | | | | | | 9.34 | 8.39 | 7.44 | | |
| | | | | 56K | | — | | | | | | 3K | 8-ch. 10-bit | — | 1 USART, 1 SSU*, 1 CAN | 2/2/— |
| | 64-LQFP | DF36037FZV-ND | 9.97 | | 8.96 | | 7.95 | | | | | | | | | |
| | 64-QFP | DF36037GHV-ND | 9.97 | | 8.96 | | 7.95 | | | | | | | | | |
| | 64-QFP | DF36037HV-ND | 9.75 | | 8.76 | | 7.77 | | | | | | | | | |
| | 80-QFP | DF36049GHV-ND | 9.73 | | 8.76 | | 7.77 | | | | | | | | | |
| | 80-QFP | DF36049HV-ND | 9.53 | | 8.58 | | 7.61 | | | | | | | | | |
| | 80-QFP | HD64F36049H-ND | 9.53 | | 8.58 | | 7.61 | | | | | | | | | |
| | 64-LQFP | DF36054FZV-ND | 9.55 | | 8.58 | | 7.61 | | | | | | | | | |
| | 64-LQFP | DF36054GFZV-ND | 9.75 | | 8.76 | | 7.77 | | | | | | | | | |
| | 64-QFP | DF36054GHV-ND | 9.75 | | 8.76 | | 7.77 | | | | | | | | | |
| | 56K | — | 3K | 8-ch. 10-bit | — | 2 USART, 1 SSU*, 1 CAN | 2/2/— | 53 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | DF36057FZV-ND | 9.97 | 8.96 | 7.95 | |
| | | | | | | | | | | | | 64-LQFP | DF36057GFZV-ND | 10.17 | 9.14 | 8.10 |
| | | | | | | | | | | | | 64-QFP | DF36057GHV-ND | 10.17 | 9.14 | 8.10 |
| | | | | | | | | | | | | 64-QFP | DF36057HV-ND | 9.97 | 8.96 | 7.95 |
| | | | | | | | | | | | | 64-LQFP | DF36064GFPV-ND | 5.29 | 4.76 | 4.22 |
| | | | | | | | | | | | | 64-QFP | DF36064GHV-ND | 6.34 | 5.08 | 4.28 |
| | | | | | | | | | | | | 64-LQFP | DF36074GFZV-ND | 5.66 | 5.09 | 4.51 |
| | | | | | | | | | | | | 64-QFP | DF36074GHV-ND | 5.95 | 5.34 | 4.74 |
| | | | | | | | | | | | | 64-QFP | DF36074GHV-ND | 7.92 | 6.34 | 5.35 |
| | | | | | | | | | | | | 56K | — | 4K | 8-ch. 10-bit | — |
| | 64-QFP | DF36077GHV-ND | 7.62 | 6.10 | 5.15 | | | | | | | | | | | |
| | 128K | — | 6K | 8-ch. 10-bit | 1-ch. 14-bit | 2 USART, 1 I2C | 2/2/— | 55 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | DF36079GFZV-ND | 9.68 | 7.75 | 6.54 | |
| | 56K | — | 4K | 8-ch. 10-bit | — | 2 USART, 1 I2C | 2/2/— | 53 | 18MHz/3.0 - 3.6V | -20°C - 75°C | 64-LQFP | DF36087FPV-ND | 8.66 | 7.80 | 6.92 | |
| | 56K | — | 4K | 8-ch. 10-bit | — | 2 USART, 1 I2C | 2/2/— | 53 | 18MHz/3.0 - 3.6V | -20°C - 75°C | 64-QFP | DF36087HV-ND | 8.68 | 7.80 | 6.92 | |
| | 32K | — | 2K | 8-ch. 10-bit | — | 1 USART, 1 I2C | 3/1/— | 39 | 20MHz/4.5 - 5.5V | -20°C - 75°C | 64-LQFP | DF36094GFZV-ND | 9.66 | 7.73 | 6.53 | |
| | 128K | — | 5K | 16-ch. 10-bit | — | 3 USART, 1 I2C | 2/3/— | 87 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 100-QFP | DF36108PV-ND | 10.60 | 9.53 | 8.45 | |
| | | | | | | | | | | | | 100-QFP | DF36108FV-ND | 10.82 | 9.72 | 8.62 |
| | | | | | | | | | | | | 100-LQFP | DF36108HV-ND | 10.82 | 9.72 | 8.62 |
| | 32K | — | 2K | 8-ch. 10-bit | — | I2C, 2 USART | 2/1/— | 29 | 16MHz/4.0 - 5.5V | -20°C - 75°C | 64-LQFP | HD64F3664FPV-ND | 9.50 | 7.60 | 6.42 | |
| | 8K | — | 2K | 4-ch. 10-bit | — | 1 USART | 1/1/— | 30 | 16MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | HD64F3670FPV-ND | 5.42 | 4.34 | 3.38 | |
| | | | | | | | | | | | | 48-LQFP | HD64F3670FXV-ND | 5.42 | 4.34 | 3.38 |
| | | | | | | | | | | | | 48-LQFP | HD64F3670FYV-ND | 5.42 | 4.34 | 3.38 |
| | 16K | — | 2K | 4-ch. 10-bit | — | 1 USART | 1/1/— | 30 | 16MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | HD64F3672FPV-ND | 5.06 | 4.05 | 3.42 | |
| | | | | | | | | | | | | 48-LQFP | HD64F3672FXV-ND | 5.06 | 4.05 | 3.42 |
| | | | | | | | | | | | | 48-LQFP | HD64F3672FYV-ND | 5.06 | 4.05 | 3.42 |
| | 32K | — | 4K | 8-ch. 10-bit | — | 2 USART, 1 I2C | 2/2/— | 53 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | HD64F3684FPV-ND | 9.90 | 7.92 | 6.69 | |
| | | | | | | | | | | | | 64-LQFP | HD64F3684FV-ND | 8.46 | 7.62 | 6.76 |
| | | | | | | | | | | | | 64-QFP | HD64F3684GHV-ND | 8.48 | 7.62 | 6.76 |
| | | | | | | | | | | | | 64-QFP | HD64F3684HV-ND | 9.90 | 7.92 | 6.69 |
| | 56K | — | 4K | 8-ch. 10-bit | — | 2 USART, 1 I2C | 2/2/— | 51 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | DN3687FPV-ND | 9.97 | 8.96 | 7.95 | |
| | | | | | | | | | | | | 64-LQFP | HD64F3687FPV-ND | 8.66 | 7.80 | 6.92 |
| | | | | | | | | | | | | 64-LQFP | HD64F3687FV-ND | 8.88 | 8.00 | 7.09 |
| | | | | | | | | | | | | 64-QFP | HD64F3687GHV-ND | 8.90 | 8.00 | 7.09 |

• RoHS Compliant *SSU = SPI

(Continued)

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| Memory Type | ROM Bytes | Data Flash Bytes | RAM Bytes | A/D | D/A | Serial Communication | Timers 8/16/32 | GPIO | Operating Frequency/ Supply Voltage | Temperature | Package | Digi-Key Part No. | Price Each | | | |
|-------------|------------------|------------------|-----------|--------------|-----|-----------------------------|----------------|------|-------------------------------------|--------------|---------|-------------------|--------------------|------|------|------|
| | | | | | | | | | | | | | 1 | 25 | 100 | |
| Flash | 56K | — | 4K | 8-ch. 10-bit | — | 2 USART, 1 I ² C | 2/2/— | 53 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-QFP | HD64F3687H-ND | 8.66 | 7.80 | 6.92 | |
| | | | | | | | | | | | | 32-OFP | DF36902GFHV-ND◆ | 5.42 | 4.34 | 3.38 |
| | | | | | | | | | | | | | DF36902GTPAFV-ND◆ | 5.42 | 4.34 | 3.38 |
| | 8K | — | 1.5K | 4-ch. 10-bit | — | 1 USART, 1 I ² C | 2/1/— | 22 | 12MHz/3.0 - 5.5V | -20°C - 75°C | 32-SOP | DF36912GFHV-ND◆ | 5.06 | 4.05 | 3.42 | |
| | | | | | | | | | | | | DF36912GTPAFV-ND◆ | 5.06 | 4.05 | 3.42 | |
| | | | | | | | | | | | | 64-LQFP | DN3694GFVPV-ND◆ | 8.93 | 8.03 | 7.12 |
| | 32K | — | 2K | 8-ch. 10-bit | — | 1 USART, 1 I ² C | 2/1/— | 35 | 20MHz/3.0 - 5.5V | -20°C - 75°C | 64-LQFP | HD64F3694FPV-ND | 9.38 | 7.51 | 6.34 | |
| | | | | | | | | | | | | HD64F3694FV-ND◆ | 9.38 | 7.51 | 6.34 | |
| | | | | | | | | | | | | 48-QFN | HD64F3694FTV-ND◆ | 9.38 | 7.51 | 6.34 |
| | | | | | | | | | | | | 48-LQFP | HD64F3694FXV-ND◆ | 9.38 | 7.51 | 6.34 |
| | | | | | | | | | | | | 48-LQFP | HD64F3694FYV-ND◆ | 9.38 | 7.51 | 6.34 |
| | | | | | | | | | | | | 64-LQFP | HD64F3694GFVPV-ND◆ | 9.66 | 7.73 | 6.53 |
| | | | | | | | | | | | | 48-QFN | HD64F3694GFTV-ND◆ | 9.66 | 7.73 | 6.53 |
| | | | | | | | | | | | | 48-LQFP | HD64F3694GFYV-ND◆ | 9.66 | 7.73 | 6.53 |
| | | | | | | | | | | | | 48-LQFP | HD64F3694GFVXV-ND◆ | 9.66 | 7.73 | 6.53 |
| 64-LQFP | HD64F3694GHV-ND◆ | 9.66 | 7.73 | 6.53 | | | | | | | | | | | | |
| 64-QFP | HD64F3694GHV-ND◆ | 9.66 | 7.73 | 6.53 | | | | | | | | | | | | |
| 64-QFP | HD64F3694HV-ND◆ | 9.38 | 7.51 | 6.34 | | | | | | | | | | | | |

H8 Super Low Power

H8/300L and H8/300H Super Low Power series of MCUs are designed for optimum power consumption and fit in applications where battery life is critical. A built-in LCD controller is included on large packages (64-100 pins).

| Memory Type | ROM Bytes | Data Flash Bytes | RAM Bytes | A/D | D/A | Serial Communication | Timers 8/16/32 | GPIO | Operating Frequency/ Supply Voltage | Temperature | Package | Digi-Key Part No. | Price Each | | | |
|-------------|--------------|------------------|--|--------------|-----------------------------------|----------------------|----------------|-------------------|-------------------------------------|--------------------|-------------------|--------------------|------------------|-------|-------|------|
| | | | | | | | | | | | | | 1 | 25 | 100 | |
| Flash | 16K | — | 1K | 4-ch. 10-bit | — | 1 USART | 2/2/0 | 50 | 4MHz/2.2 - 3.6V | -20°C - 75°C | 64-LQFP | DF38002FP4V-ND◆ | 8.27 | 7.43 | 6.59 | |
| | | | | | | | | | | | | 64-QFP | DF38002H4V-ND◆ | 9.86 | 7.89 | 6.66 |
| | | | | | | | | | | | | | DF38002H10V-ND◆ | 9.08 | 8.16 | 7.24 |
| | 32K | — | 1K | 4-ch. 10-bit | — | 1 USART | 2/2/0 | 50 | 4MHz/2.2 - 3.6V | -20°C - 75°C | 64-LQFP | DF38004FP4V-ND◆ | 8.68 | 7.80 | 6.92 | |
| | | | | | | | | | | | | DF38004H4V-ND◆ | 8.68 | 7.80 | 6.92 | |
| | | | | | | | | | | | | 64-LQFP | DF38004FP10V-ND◆ | 8.66 | 7.80 | 6.92 |
| | | | | 8-ch. 10-bit | — | 1 USART | 4/2/0 | 66 | 10MHz/2.7 - 3.6V | 80-QFP | HD64F38024D-ND◆ | 11.44 | 10.28 | 9.12 | | |
| | | | | | | | | | | | HD64F38024H-ND | 12.46 | 9.97 | 8.42 | | |
| | | | | | | | | | | | 80-QFP | HD64F38024RDV-ND◆ | 10.54 | 9.47 | 8.40 | |
| | | | | | | | | | | | 80-QFP | HD64F38024RHV-ND◆ | 9.57 | 8.60 | 7.63 | |
| | | | | | | | | | | | 80-TQFP | HD64F38024RW-ND◆ | 11.46 | 9.17 | 7.74 | |
| | | | | | | | | | | | 80-TQFP | HD64F38024RWIV-ND◆ | 10.54 | 9.47 | 8.40 | |
| | 8-ch. 10-bit | — | 1 USART | 3/1/— | 66 | 10MHz/2.7 - 3.6V | 80-TQFP | HD64F38024RWV-ND◆ | 9.57 | 8.60 | 7.63 | | | | | |
| | | | | | | | | 80-TQFP | HD64F38024WV-ND◆ | 11.44 | 10.28 | 9.12 | | | | |
| | | | | | | | | 85-TFLGA | HD64F38024RFLV-ND◆ | 9.57 | 8.60 | 7.63 | | | | |
| 52K | — | 2K | 8-ch. 10-bit | — | 3 USART, 1rDA, 1 I ² C | 2/4/0 | 63 | 4.2MHz/1.8 - 3.6V | -20°C - 75°C | 80-QFP | DF38076RH4V-ND◆ | 11.33 | 10.20 | 9.05 | | |
| | | | | | | | | | | | 85-TFLGA | DF38076RPL4V-ND◆ | 12.33 | 11.10 | 9.85 | |
| | | | | | | | | | | | 80-TQFP | DF38076RW4V-ND◆ | 11.36 | 10.20 | 9.05 | |
| | | | | | | | | | | | 80-QFP | DF38076RH10V-ND◆ | 11.57 | 10.40 | 9.22 | |
| | | | | | | | | | | | 80-QFP | DF38076RH10WV-ND◆ | 12.74 | 11.45 | 10.15 | |
| | | | | | | | | | | | 85-TFLGA | DF38076RPL10V-ND◆ | 12.58 | 11.30 | 10.02 | |
| | | | 2-ch. 14-bit(ΔΣ) 3-ch. 10-bit (SAR) | — | 3 USART, 1rDA, 1 I ² C | 2/4/0 | 63 | 10MHz/2.7 - 3.6V | 85-TFLGA | DF38076RPL10WV-ND◆ | 13.84 | 12.44 | 11.03 | | | |
| | | | | | | | | | | 80-TQFP | DF38076RW10V-ND◆ | 11.57 | 10.40 | 9.22 | | |
| | | | | | | | | | | 80-TQFP | DF38076RW10WV-ND◆ | 12.74 | 11.45 | 10.15 | | |
| | | | | | | | | | | 80-QFP | DF38086RH4V-ND◆ | 12.66 | 11.40 | 10.11 | | |
| | | | | | | | | | | 85-TFLGA | DF38086RPL4V-ND◆ | 13.66 | 12.30 | 10.91 | | |
| | | | | | | | | | | 80-TQFP | DF38086RW4V-ND◆ | 12.69 | 11.40 | 10.11 | | |
| 128K | — | 4K | 8-ch. 10-bit | — | 4 USART, 1rDA, 1 I ² C | 4/4/0 | 83 | 10MHz/1.8 - 3.6V | -20°C - 75°C | 100-LQFP | DF38099FP10V-ND◆ | 14.25 | 12.80 | 11.35 | | |
| | | | | | | | | | | | 64-LQFP | DF38102FPV-ND◆ | 8.47 | 7.61 | 6.75 | |
| | | | | | | | | | | | 64-QFP | DF38102HV-ND◆ | 8.47 | 7.61 | 6.75 | |
| 16K | — | 1K | 4-ch. 10-bit | — | 1 USART | 2/2/0 | 49 | 20MHz/2.7 - 5.5V | -20°C - 75°C | 64-QFP | DF38102HV-ND◆ | 8.47 | 7.61 | 6.75 | | |
| | | | | | | | | | | | 64-QFP | DF38102HWV-ND◆ | 9.30 | 8.36 | 7.41 | |
| | | | | | | | | | | | 64-LQFP | DF38104FPV-ND◆ | 9.80 | 8.81 | 7.81 | |
| 32K | — | 1K | 4-ch. 10-bit | — | 1 USART | 2/2/0 | 49 | 20MHz/2.7 - 5.5V | -20°C - 75°C | 64-LQFP | DF38104FPV-ND◆ | 8.88 | 8.00 | 7.09 | | |
| | | | | | | | | | | | 64-QFP | DF38104HV-ND◆ | 8.88 | 8.00 | 7.09 | |
| | | | | | | | | | | | 64-QFP | DF38104HWV-ND◆ | 9.80 | 8.81 | 7.81 | |
| 16K | — | 1K | 8-ch. 10-bit | — | 1 USART | 4/2/0 | 65 | 20MHz/2.7 - 5.5V | -20°C - 75°C | 80-TQFP | DF38122WV-ND◆ | 9.35 | 8.40 | 7.45 | | |
| | | | | | | | | | | | 80-QFP | DF38124HV-ND◆ | 9.80 | 8.81 | 7.81 | |
| | | | | | | | | | | | 80-QFP | DF38124HWV-ND◆ | 10.77 | 9.68 | 8.58 | |
| 32K | — | 1K | 8-ch. 10-bit | — | 1 USART | 4/2/0 | 65 | 20MHz/2.7 - 5.5V | -20°C - 75°C | 80-TQFP | DF38124WV-ND◆ | 9.80 | 8.81 | 7.81 | | |
| | | | | | | | | | | | 80-TQFP | DF38124WV-ND◆ | 10.77 | 9.68 | 8.58 | |
| | | | | | | | | | | | 80-TQFP | DF38124WV-ND◆ | 10.17 | 9.14 | 8.10 | |
| 60K | — | 2K | 8-ch. 10-bit | — | 2 USART | 4/2/0 | 64 | 16MHz/2.7 - 5.5V | -20°C - 75°C | 80-QFP | DF38324HV-ND◆ | 10.17 | 9.14 | 8.10 | | |
| | | | | | | | | | | | 80-QFP | DF38324HWV-ND◆ | 11.04 | 9.92 | 8.80 | |
| | | | | | | | | | | | 80-TQFP | DF38324WV-ND◆ | 10.17 | 9.14 | 8.10 | |
| 32K | — | 2K | 12-ch. 10-bit | — | 3 USART | 4/2/0 | 84 | 16MHz/2.7 - 5.5V | -20°C - 75°C | 100-QFP | DF38327HV-ND◆ | 10.82 | 9.72 | 8.62 | | |
| | | | | | | | | | | | 100-QFP | DF38327HWV-ND◆ | 11.91 | 10.70 | 9.49 | |
| | | | | | | | | | | | 100-TQFP | DF38327WV-ND◆ | 10.82 | 9.72 | 8.62 | |
| 60K | — | 2K | 12-ch. 10-bit | — | 3 USART | 4/2/0 | 84 | 16MHz/2.7 - 5.5V | -20°C - 75°C | 100-QFP | DF38344HV-ND◆ | 11.02 | 9.90 | 8.78 | | |
| | | | | | | | | | | | 100-QFP | DF38344HWV-ND◆ | 12.24 | 11.00 | 9.75 | |
| | | | | | | | | | | | 100-TQFP | DF38344WV-ND◆ | 12.14 | 10.91 | 9.67 | |
| 32K | — | 2K | 12-ch. 10-bit | — | 3 USART | 4/2/0 | 84 | 16MHz/2.7 - 5.5V | -20°C - 75°C | 100-TQFP | DF38344XV-ND◆ | 11.02 | 9.90 | 8.78 | | |
| | | | | | | | | | | | 100-TQFP | DF38344XV-ND◆ | 12.14 | 10.91 | 9.67 | |
| | | | | | | | | | | | 100-TQFP | DF38344XV-ND◆ | 12.14 | 10.91 | 9.67 | |
| 60K | — | 2K | 12-ch. 10-bit | — | 3 USART | 4/2/0 | 84 | 16MHz/2.7 - 5.5V | -20°C - 75°C | 100-QFP | DF38347HV-ND◆ | 11.65 | 10.49 | 9.30 | | |
| | | | | | | | | | | | 100-QFP | DF38347HWV-ND◆ | 12.83 | 11.52 | 10.22 | |
| | | | | | | | | | | | 100-TQFP | DF38347WV-ND◆ | 11.67 | 10.49 | 9.30 | |
| 60K | — | 2K | 12-ch. 10-bit | — | 3 USART | 4/2/0 | 84 | 16MHz/2.7 - 5.5V | -20°C - 75°C | 100-TQFP | DF38347WV-ND◆ | 12.83 | 11.52 | 10.22 | | |
| | | | | | | | | | | | 100-TQFP | DF38347WV-ND◆ | 11.67 | 10.49 | 9.30 | |
| | | | | | | | | | | | 100-TQFP | DF38347XV-ND◆ | 11.67 | 10.49 | 9.30 | |

◆ RoHS Compliant *SSU = SPI*

(Continued)

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