

ENTERPRISE VOICE – DVF FAMILY

| | DVFD8187 + DAP19x2 | DVFD8185 + DRF19x2 | DVF9918 | DVF9919 |
|--------------------------------|--|--|---|---|
| Function | VoIP Processor + PMU + AFE | VoIP Processor + PMU + AFE + Radio | VoIP Processor + PMU + AFE | High-end VoIP Processor + PMU + AFE |
| Segment | | | | |
| IP Phone | ✓ | ✓ | ✓ | ✓ |
| ATA | ✓ | ✓ | ✓ | ✓ |
| Cordless IP Phone, ATA | | ✓ | With external RFIC | With external RFIC |
| High-End IP Phone, ATA | | | | ✓ |
| VoIP Codecs | | | | |
| # of Channels | 4~6 | 4~6 | 6 | >8 |
| Codec Types | G.711, G.722, G.723.1, G.729A/B, iLBC, G.722.2 | G.711, G.722, G.723.1, G.729A/B, iLBC, G.722.2 | G.711, G.722, G.723.1, G.729A/B, iLBC, G.722.2 and more | G.711, G.722, G.723.1, G.729A/B, iLBC, G.722.2 and more |
| MCU | | | | |
| Processor | ARM 926 | ARM 926 | ARM 926 | ARM 926 |
| MIPS | 220 MHz | 220 MHz | 400 MHz | 600 MHz |
| DSP / Co-Processor | | | | |
| Processor | R.E.A.L | R.E.A.L | ARM 926 | ARM 926 |
| MIPS | 120 MHz | 120 MHz | 400 MHz | 500 MHz |
| App Memory | | | | |
| External RAM | SDRAM | SDRAM | SDRAM | DDR2, DDR3, mDDR |
| External Flash | SPI, NAND | SPI, NAND | QSPI, NAND | QSPI, NAND, Parallel NOR |
| I/O | | | | |
| Ethernet | RMII | RMII | RMII, RGMII | MII, RMII, RGMII |
| Keypad | 8x8 | 8x8 | 7x8 | 10x8 |
| GPIO | ✓ | ✓ | ✓ | ✓ |
| UART | ✓ | ✓ | ✓ | ✓ |
| USB | Device (FS) | Device (FS) | Host/Device (FS) | OTG (FS/HS) |
| PCM/IOM/TDM | ✓ | ✓ | ✓ | ✓ |
| I2S | ✓ | ✓ | ✓ | ✓ |
| SPI | ✓ | ✓ | ✓ | ✓ |
| PWM | ✓ | ✓ | ✓ | ✓ |
| Advanced Features | | | | |
| Crypto Engine | Software | Software | Hardware | Hardware |
| Secured Boot | | | ✓ | ✓ |
| GPU | | | | 2D |
| Touch Screen | ✓ | ✓ | | ✓ |
| Color LCDC | External 1/8/16-bit I/F | External 1/8/16-bit I/F | External 1/8/16-bit I/F | Embedded WVGA LCDC |
| PMU | | | | |
| Voltage Converters | 1.2V, 1.8V & 3.3V DCDC/LDO | 1.2V, 1.8V & 3.3V DCDC/LDO | 1.2V, 1.8V & 3.3V DCDC/LDO | 1.2V, 1.8V & 3.3V DCDC/LDO |
| AFE | | | | |
| Audio In | 3 MIC Amps 2 ADCs | 3 MIC Amps 2 ADCs | 3 MIC Amps 2 ADCs | 3 MIC Amps 2 ADCs |
| Audio Out | 3 SPK Amps 2 DACs | 3 SPK Amps 2 DACs | 3 SPK Amps 3 DACs | 3 SPK Amps 3 DACs |
| Speaker Amp | 1.1 W | 1.1 W | 1.2 W | 2 W |
| Radio | | | | |
| DECT, DECT 6.0, J-DECT, K-DECT | | ✓ | RF19Z | RF19Z |
| 2.4 GHz | | | RF24 | RF24 |

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