

EM6819 Family ensures 0.9V Battery Operations and much more ...



Part number	Flash code (KWords)		max NVM data (KB)		RAM (B)	VDD range (V)	DCDC converter	GPIOs pins	Digital communication	Clock speed	Internal oscillator	8bit Timers		PWM (up to channel)	10bit ADC (up to channel)	Temp. Sensor	Additional analog	Additional digital	self write for software Update	Debug On Chip / ISP	Package(s) Note 1
	2	4	256	512								0.9 - 3.6	-								
2K word Flash (5.6kByte)	EM6819F2-B006	2	4	256	0.9 - 3.6	-	04 to 12	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz	4	4	-	-	PwrCk Brown-Out VLD	SCWUP WD	✓	✓	SO08 TSSOP16		
	EM6819F2-B000	2	4	512	0.9 - 3.6	-	12 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	8	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP16-20-28 QFN20		
	EM6819F2-A000	2	4	512	0.9 - 3.6	✓	12 to 20	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	8	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP20-28 QFN20		
	EM6819F2-B300	2	4	512	1.8 - 5.5	-	16 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	6	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP20-28		
4K word Flash (11.5kByte)	EM6819F4-B005	4	8	256	0.9 - 3.6	-	04 to 12	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz	4	4	4	-	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	SO08 TSSOP16		
	EM6819F4-A005	4	8	256	0.9 - 3.6	✓	08 to 12	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz	4	4	4	-	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP16-20 QFN20		
	EM6819F4-A000	4	8	512	0.9 - 3.6	✓	12 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	8	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP20-28 QFN20-32		
	EM6819F4-B000	4	8	512	0.9 - 3.6	-	12 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	8	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP16-20-28		
	EM6819F4-B100	4	8	512	1.8 - 3.6	-	12 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	8	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP16-20-28 QFN20		
	EM6819F4-B300	4	8	512	1.8 - 5.5	-	16 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	6	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP20-28		
6K word Flash (16.9kByte)	EM6819F6-B004	6	12	512	0.9 - 3.6	-	04 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz	4	4	8	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	SO08 TSSOP16-20-28		
	EM6819F6-A000	6	12	512	0.9 - 3.6	✓	12 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	8	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP20-28 QFN20-32		
	EM6819F6-B100	6	12	512	1.8 - 3.6	-	12 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	8	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP16-20-28		
	EM6819F6-A100	6	12	512	1.8 - 3.6	✓	12 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	8	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP20-28 QFN20-32		
	EM6819F6-B300	6	8	512	1.8 - 5.5	-	16 to 24	SPI SW-UART / I2C	15MHz	RC 8kHz 2MHz 15MHz Crystal 32kHz - 4Mhz	4	4	6	✓	PwrCk Brown-Out OPAMP VLD	SCWUP WD	✓	✓	TSSOP20-28		

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|----------------|------------------------------|--------------|-----------------------------|
| NVM | Non Volatile Memory | PWM | Pulse Width Modulation |
| RAM | Random Access Memory | ADC | Analog to Digital Converter |
| GPIO | General Purpose Input Output | OPAMP | Operational Amplifier |
| SPI | Serial Peripheral Interface | PwrCk | Power Check on start-up |
| RC | Fully embedded RC Oscillator | VLD | Voltage Level Detector |
| Crystal | Oscillator on chip | ISP | In System Programming |
| WD | Digital Watch-dog | SCWUP | Sleep Counter Wake-Up |

Note 1 : Ask for package & volume availability