## ESPON S1C6F416 SPEC

OSC1 oscillation circuit	
OSC3 oscillation circuit	
Instruction set	
	Addressing mode: 8 types
Instruction execution time	During operation at 32.768 kHz: 61 μsec 122 μsec 183 μsec
	During operation at 60 kHz: 33 μsec 67 μsec 100 μsec
	During operation at 2 MHz: 1 μsec 2 μsec 3 μsec
	During operation at 3.58 MHz:0.56 μsec 1.12 μsec 1.68 μsec
PROM capacity	
	Data PROM: 4,096 words $\times$ 4 bits
RAM capacity	Data memory: 1,024 words × 4 bits
	Display memory: 1,020 bits (240 words $\times$ 4 bits + 60 $\times$ 1 bit)
Input port	
Output port	
I/O port	
serial I/F inputs/outputs)	
Serial interface	
LCD driver	60 segments $\times$ 8, 9, 16 or 17 commons; It can be selected with software
Time base counter	
Programmable timer	
Watchdog timer	Built-in
Supply voltage detection (SVD	) circuit 2 values, programmable (2.70 V, 2.80 V)
External interrupt	Input port interrupt: 4 systems
Internal interrupt	
	Stopwatch timer interrupt: 2 systems
	Programmable timer interrupt: 2 systems
	Serial interface interrupt: 3 systems
Power supply voltage	2.7 V to 3.6 V
Operating temperature range .	20°C to 70°C
Current consumption (Typ.)	Low-power operation:
	During SLEEP 1.2 μA (Typ.)
	During HALT (32 kHz cryctal oscillation)/ 3.6 V (LCD OFF) 3.0 μA (Typ.)/3.6 V (LCD ON) 10.0 μA (Typ.)
	During operation (32 kHz cryctal oscillation)/3.6 V (LCD OFF) 90 μA (Typ.)
	During HALT (60 kHz CR oscillation)/3.6 V (LCD OFF) 8.0 μA (Typ.)/3.6 V (LCD ON) 20.0 μA (Typ.)
	During operation (60 kHz CR oscillation)/ 3.6 V (LCD OFF) 180 μA (Typ.)
	High-speed operation:
	During operation (2 MHz CR oscillation)/3.6 V (LCD OFF) 800 μA (Typ.)
	During operation (3.58 MHz ceramic oscillation)/3.6 V (LCD OFF) 1 mA (Typ.)
Package	