

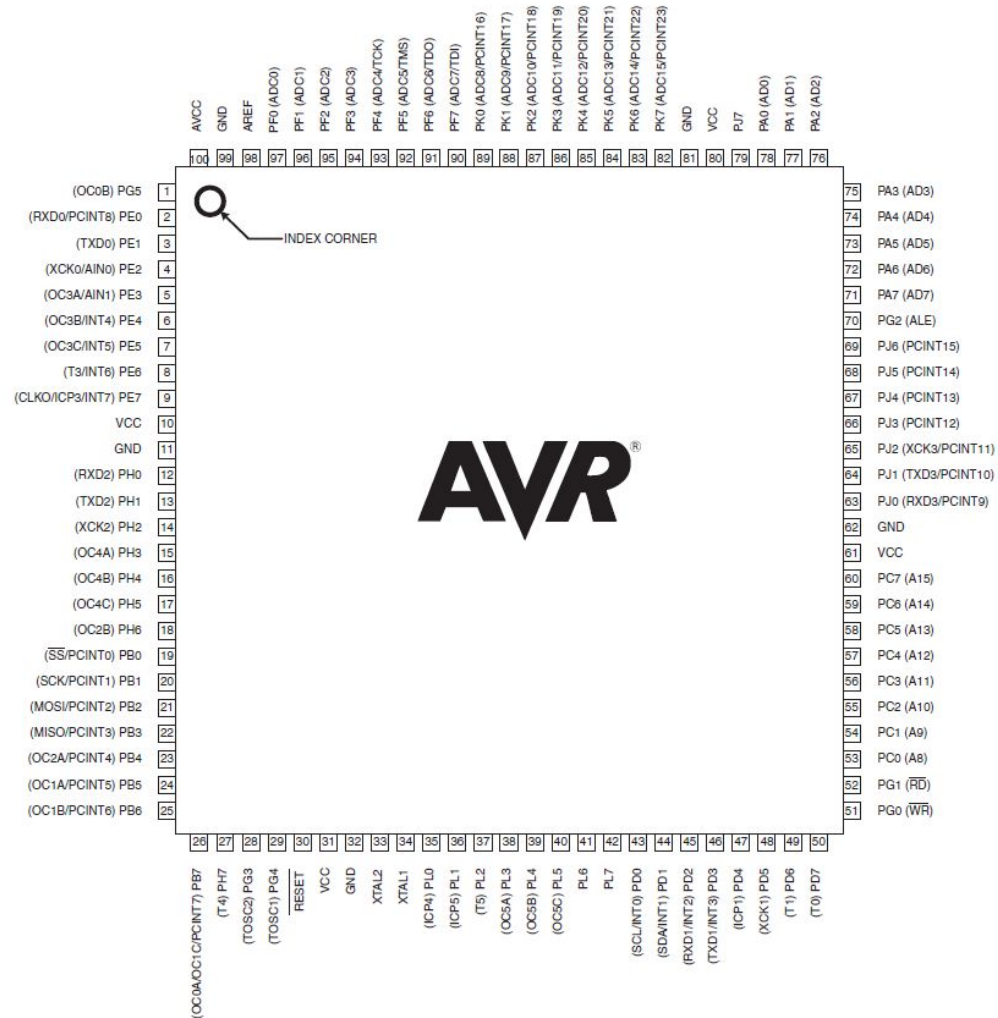
The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

Pinagem

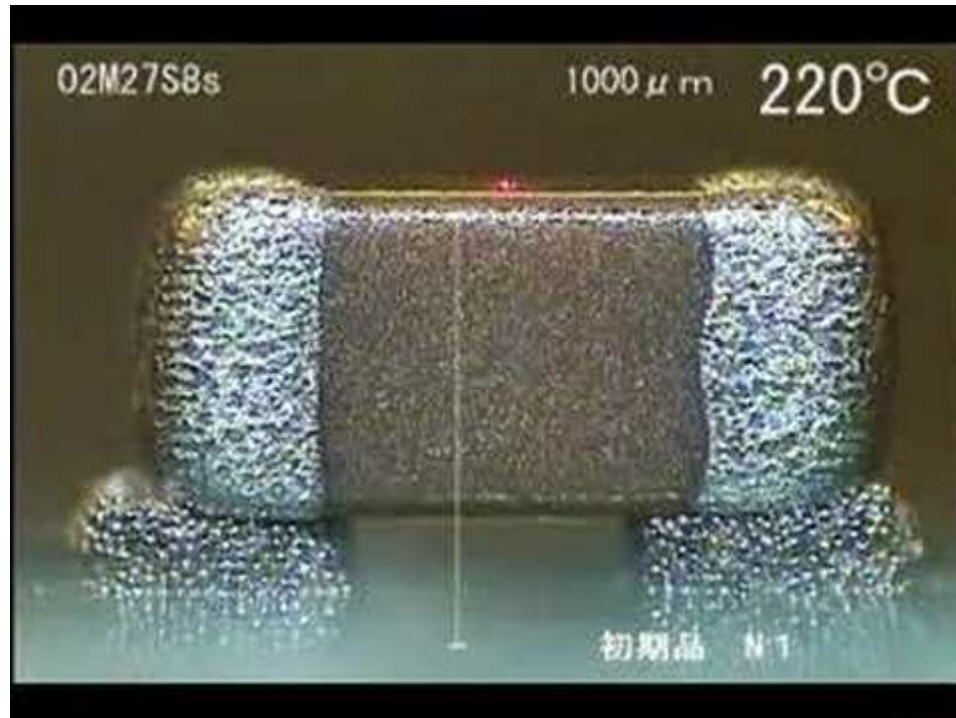
Sistemas Microcontrolados

TQFP-pinout ATmega640/1280/2560

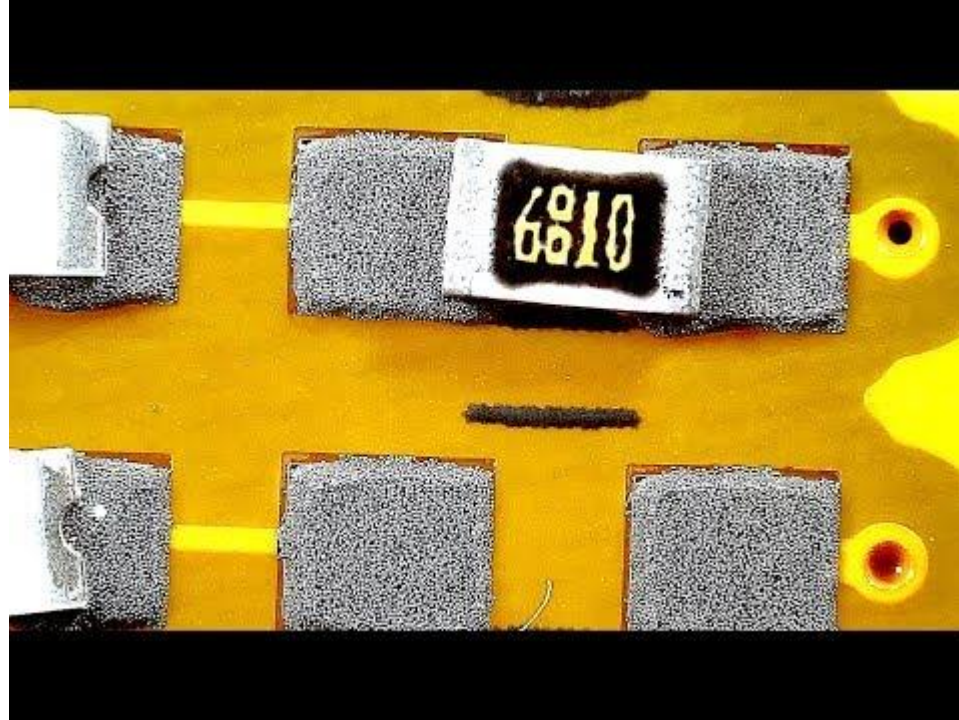
Quad Flat Package (QFP)
TQFP (*Thin QFP*)



Surface-mount technology (SMT)



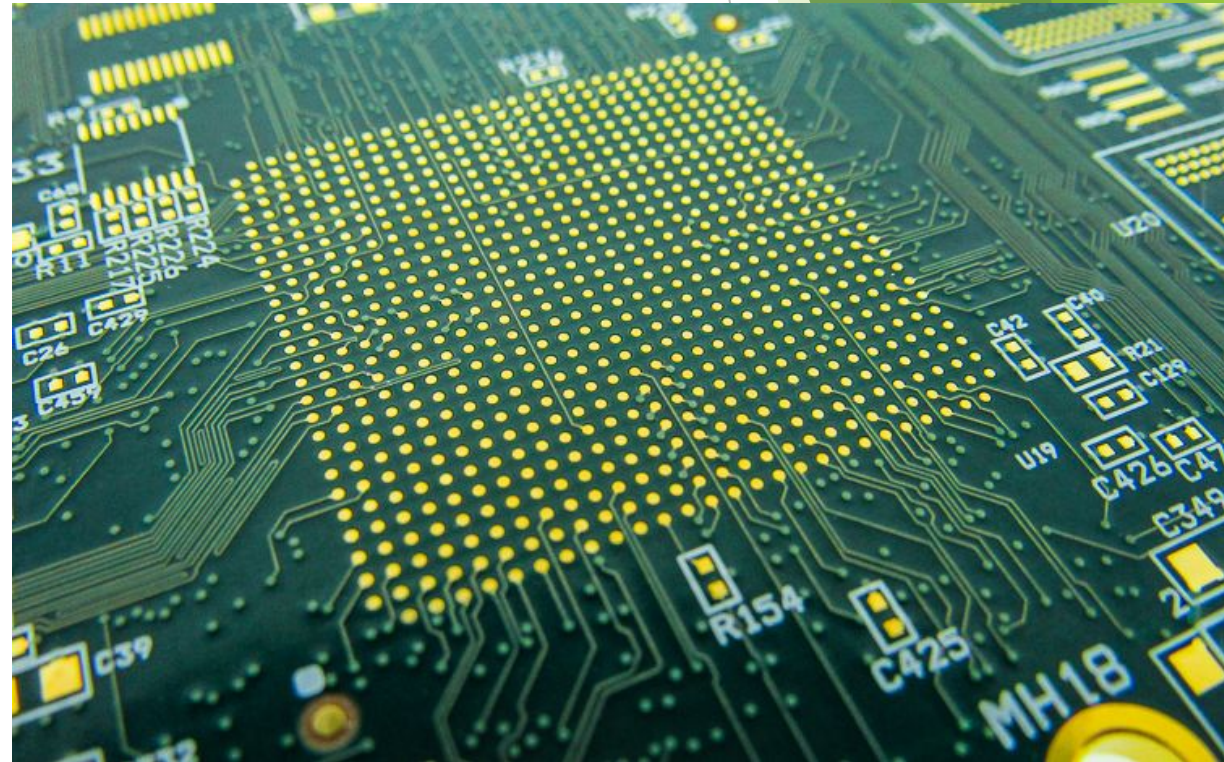
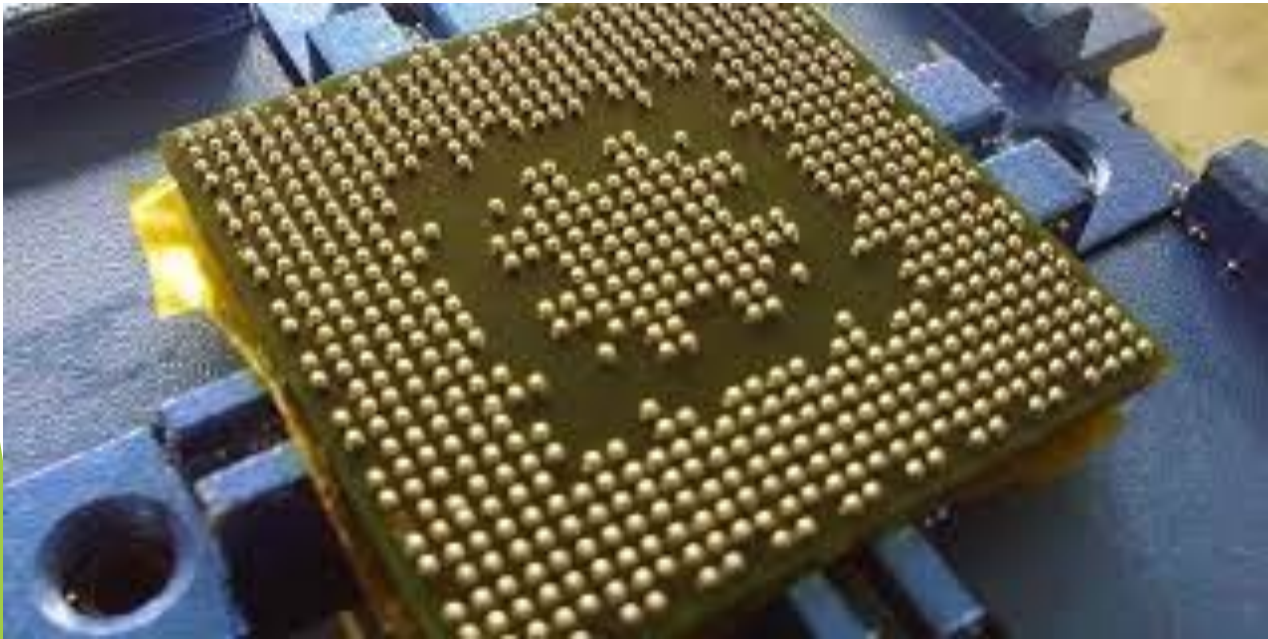
https://www.youtube.com/watch?v=o_SwxI2KTys



https://www.youtube.com/watch?v=S8qkaTsr2_o

<https://www.youtube.com/watch?v=tQHDSXDZYF4>

Solda BGA (ball grid array)



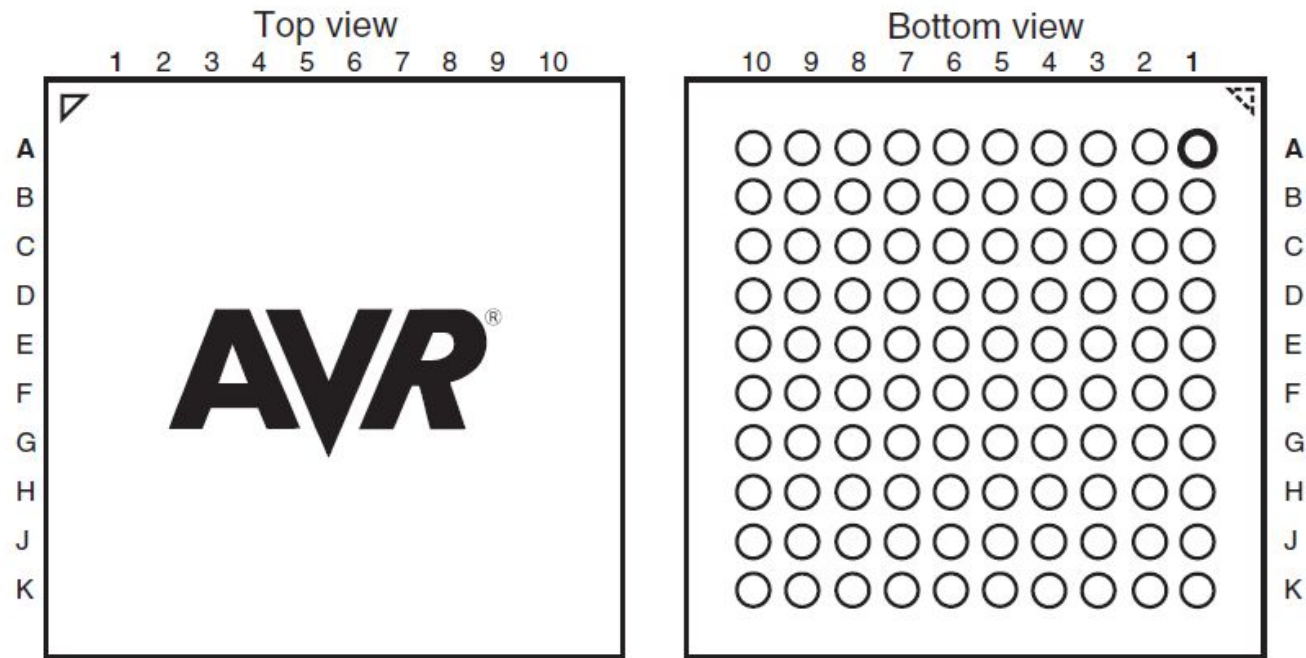
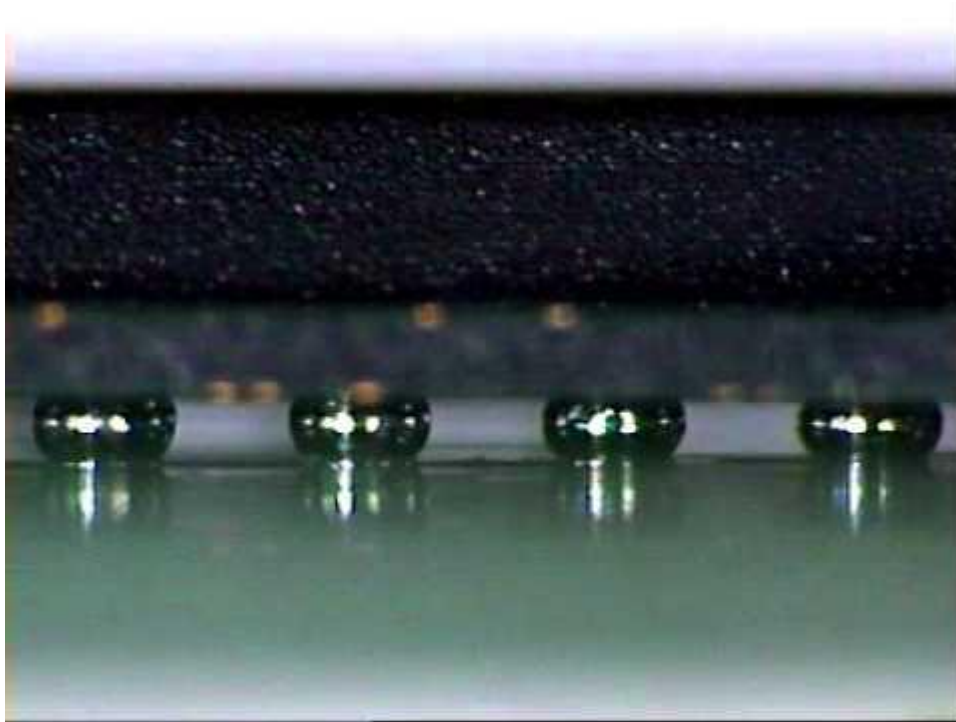


Table 1-1. CBGA-pinout ATmega640/1280/2560

	1	2	3	4	5	6	7	8	9	10
A	GND	AREF	PF0	PF2	PF5	PK0	PK3	PK6	GND	VCC
B	AVCC	PG5	PF1	PF3	PF6	PK1	PK4	PK7	PA0	PA2
C	PE2	PE0	PE1	PF4	PF7	PK2	PK5	PJ7	PA1	PA3
D	PE3	PE4	PE5	PE6	PH2	PA4	PA5	PA6	PA7	PG2
E	PE7	PH0	PH1	PH3	PH5	PJ6	PJ5	PJ4	PJ3	PJ2
F	VCC	PH4	PH6	PB0	PL4	PD1	PJ1	PJ0	PC7	GND
G	GND	PB1	PB2	PB5	PL2	PD0	PD5	PC5	PC6	VCC
H	PB3	PB4	RESET	PL1	PL3	PL7	PD4	PC4	PC3	PC2
J	PH7	PG3	PB6	PL0	XTAL2	PL6	PD3	PC1	PC0	PG1
K	PB7	PG4	VCC	GND	XTAL1	PL5	PD2	PD6	PD7	PG0

Note: The functions for each pin is the same as for the 100 pin packages shown in [Figure 1-1 on page 2](#).



<https://www.youtube.com/watch?v=5mWHRakh5Hw>

Component PTH (Plated through-hole)

