

38.8 ATmega328P

Speed (MHz) ⁽³⁾	Power Supply (V)	Ordering Code ⁽²⁾	Package ⁽¹⁾	Operational Range
20	1.8 - 5.5	ATmega328P-AU ATmega328P-AUR ⁽⁵⁾ ATmega328P-MMH ⁽⁴⁾ ATmega328P-MMHR ⁽⁴⁾⁽⁵⁾ ATmega328P-MU ATmega328P-MUR ⁽⁵⁾ ATmega328P-PU	32A 32A 28M1 28M1 32M1-A 32M1-A 28P3	Industrial (-40°C to 85°C)
		ATmega328P-AN ATmega328P-ANR ⁽⁵⁾ ATmega328P-MN ATmega328P-MNR ⁽⁵⁾ ATmega328P-PN	32A 32A 32M1-A 32M1-A 28P3	Industrial (-40°C to 105°C)

- Note:
1. This device can also be supplied in wafer form. Please contact your local Atmel sales office for detailed ordering information and minimum quantities.
 2. Pb-free packaging complies to the European Directive for Restriction of Hazardous Substances (RoHS directive). Also Halide free and fully Green.
 3. See [Figure 29-1 on page 303](#).
 4. NiPdAu Lead Finish.
 5. Tape & Reel.

	32-lead, Thin (1.0mm) Plastic Quad Flat Package (TQFP)
	28-pad, 4 x 4 x 1.0 body, Lead Pitch 0.45mm Quad Flat No-Lead/Micro Lead Frame Package (QFN/MLF)
	28-lead, 0.300" Wide, Plastic Dual Inline Package (PDIP)
	32-pad, 5 x 5 x 1.0 body, Lead Pitch 0.50mm Quad Flat No-Lead/Micro Lead Frame Package (QFN/MLF)