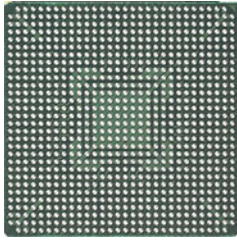


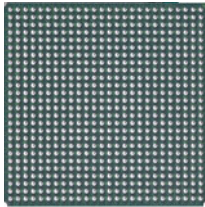
FPGA Packages

Key: f – family bs – package body size excluding leads ps – overall package dimensions including package leads h – package thickness p – pin pitch / ball pitch

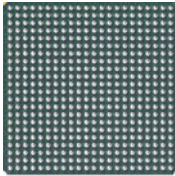
FG896
f IGLOOe¹
ProASIC3E¹
ProASIC3L¹
ps 31x31 mm
h 2.23 mm
p 1.00 mm



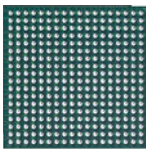
FG676
f ProASIC3E¹
Fusion¹
ps 27x27 mm
h 2.23 mm
p 1.00 mm



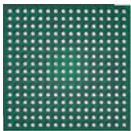
FG484
f IGLOO¹
IGLOOe¹
ProASIC3^{1,2}
ProASIC3E^{1,2}
ProASIC3L¹
SmartFusion
Fusion^{1,3}
ps 23x23 mm
h 2.23 mm
p 1.00 mm



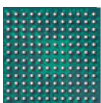
FG324
f ProASIC3E¹
ProASIC3L¹
ps 19x19 mm
h 1.63 mm
p 1.00 mm



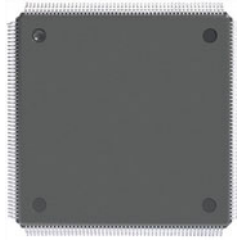
FG256
f IGLOO¹
IGLOOe
ProASIC3^{1,2}
ProASIC3E²
ProASIC3L¹
SmartFusion
Fusion^{1,3,4}
ps 17x17 mm
h 1.60 mm
p 1.00 mm



FG144
f IGLOO¹
ProASIC3¹
ProASIC3L¹
ps 13x13 mm
h 1.45 mm
p 1.00 mm



PQ208
f ProASIC3¹
ProASIC3E¹
ProASIC3L¹
Fusion¹
bs 28x28 mm
ps 30.6x30.6 mm
h 3.40 mm
p 0.50 mm



TQ144
f ProASIC3
bs 20x20 mm
ps 22x22 mm
h 1.40 mm
p 0.50 mm



VQ176
f IGLOO PLUS
bs 20x20 mm
ps 22x22 mm
h 1.00 mm
p 0.40 mm



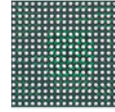
VQ128
f IGLOO PLUS
bs 14x14 mm
ps 16x16 mm
h 1.00 mm
p 0.40 mm



VQ100
f IGLOO¹
IGLOO nano
ProASIC3¹
ProASIC3 nano
ProASIC3L
bs 14x14 mm
ps 16x16 mm
h 1.00 mm
p 0.50 mm



CS289
f IGLOO PLUS
ps 14x14 mm
h 1.20 mm
p 0.80 mm



CS288
f SmartFusion
ps 11x11 mm
h 1.05 mm
p 0.50 mm



CS281
f IGLOO¹
IGLOO PLUS
ps 10x10 mm
h 1.05 mm
p 0.50 mm



CS201
f IGLOO PLUS
ps 8x8 mm
h 0.89 mm
p 0.50 mm



CS196
f IGLOO
ps 8x8 mm
h 1.11 mm
p 0.50 mm



CS121
f IGLOO
ProASIC3
ps 6x6 mm
h 0.90 mm
p 0.50 mm



CS81
f IGLOO
IGLOO nano
ps 5x5 mm
h 0.80 mm
p 0.50 mm



UC81
f IGLOO
IGLOO nano
ps 4x4 mm
h 0.80 mm
p 0.40 mm



UC36
f IGLOO nano
ps 3x3 mm
h 0.80 mm
p 0.40 mm



QN180
f Fusion
ps 10x10 mm
h 0.75 mm
p 0.50 mm



QN132
f IGLOO
ProASIC3
ps 8x8 mm
h 0.75 mm
p 0.50 mm



QN108
f Fusion
ps 8x8 mm
h 0.75 mm
p 0.50 mm



QN68
f IGLOO
IGLOO nano
ProASIC3
ProASIC3 nano
ps 8x8 mm
h 0.90 mm
p 0.40 mm



QN48
f IGLOO
IGLOO nano
ProASIC3
ProASIC3 nano
ps 6x6 mm
h 0.90 mm
p 0.40 mm



The **bs** dimension is the package body dimension *exclusive* of leads. The **ps** dimension is the overall package dimension *inclusive* of leads. Refer to the Package Mechanical Drawings document located at www.actel.com/documents/PkgMechDrwns.pdf for more information concerning package dimensions.