

MK81FN256VDC15 Information[Product Summary Page](#)[General Information](#)[Package Information](#)[Environmental and Compliance Information](#)[Manufacturing Information](#)[Ordering Information](#)[Operating Characteristics](#)**General Information**

Parameter	Value
Part Number	MK81FN256VDC15
Description	Kinetis K81: 150MHz Cortex-M4F Secure MCU, 256K Flash, 256K RAM, USB, Anti-tamper, HW Crypto, 121BGA
Product Line	G9VNK821
PTI	MBNC
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT RAPID GROWTH
Status	Active
Application/Qualification Tier	10-YEARS APPLICATION LIFE

Package Information

Parameter	Value
Package Type and Termination Count	MAPBGA 121
Package Description and Mechanical Drawing	MAPBGA 121 8*8*0.5 P0.65
Device Weight(g)	0.05390
Package Length (nominal)(mm)	8.000
Package Width (nominal)(mm)	8.000

Package Thickness (nominal)(mm)	0.500
Tape & Reel	No

Environmental and Compliance Information

Parameter	Value
Pb-Free	
RoHS Compliant	
Halogen Free	Yes
Material Composition Declaration (MCD)	Download MCD Report  Download MCD Report 
RoHS Certificate of Analysis (CoA)	Download RoHS CoA Report
2nd Level Interconnect	e1
Moisture Sensitivity Level (MSL)	3
Floor Life	168 HOURS
Peak Package Body Temperature (PPT)(°C)	260
Maximum Time at Peak Temperature (s)	40
Number of Reflow Cycles	3
REACH SVHC	NXP REACH Statement
UL94 (plastics flammability test)	V0;Burning stops within 10 seconds on a vertical specimen;no drips allowed

Manufacturing Information

Parameter	Value
Micron Size(μm)	.09

Ordering Information

Parameter	Value
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Minimum Package Quantity (MPQ)	348
MPQ Container	TRAY
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	1740
POQ Container	BOX
Leadtime (weeks)	10
Export Control Classification Number (US)	5A992
Harmonized Tariff (US) Disclaimer	8542.31.0000
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
Budgetary Price excluding tax(US\$) Change Currency	1 @ US\$5.72 each

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Operating Characteristics

Parameter	Value
Ambient Operating Temperature (Min-Max) (°C)	-40 to 105
Boot ROM (KByte)	32
Cache (KB)	16.384
Core Type	ARM Cortex-M4
DMA (ch)	32
HW dev. tools	TWR-POS-K81 FRDM-K82F

On-chip SRAM (KB)	256
Operating Frequency (Max) (MHz)	150
Package dimension (WxLxH) (mm3)	8x8x0.5
Package type	XFBGA
Pin pitch (mm)	0.65
Sample Exception Availability	Y
SPI	3
Total Flash (KByte)	256
UART	5