

MKS20FN128VLH12 :Part Detail

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

General Information

Part Number	MKS20FN128VLH12
Description	Kinetis S 32-bit MCU, ARM Cortex-M4 core, 128KB Flash, 120MHz, CAN, USB, LQFP 64
Product Line	G9FNS221
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

Package Type and Termination Count	QFP 64
Package Description and Mechanical Drawing	LQFP 64 10*10*1.4P0.5
Device Weight(g)	0.34655
Package Material	Plastic
Mounting Style	Surface Mount
Package Length (nominal)(mm)	10.000
Package Width (nominal)(mm)	10.000
Package Thickness (nominal)(mm)	1.400
Maximum Height Above Board(mm)	1.600
Tape & Reel	No

Environmental and Compliance Information

Pb-Free	
RoHS Compliant	
Halogen Free	Yes
Material Composition Declaration (MCD)	Download MCD Report Download MCD Report
RoHS Certificate of Analysis (CoA)	Contact Us

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

Micron Size(μm)	.09
-----------------	-----

Ordering Information

Minimum Package Quantity (MPQ)	160
MPQ Container	TRAY
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	800
POQ Container	BOX
Export Control Classification Number (US)	3A991A2
Harmonized Tariff (US) Disclaimer	8542.31.0000
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
Budgetary Price excluding tax(US\$) Change Currency	-
Order	Similar Samples

Operating Characteristics

16-bit PWM (ch)	10
16-bit Timer (ch)	11
32-bit Timer (ch)	4
ADC	16-bit (SAR) x 1
Ambient Operating Temperature (Min-Max) (°C)	-40 to 105
CAN	1
Core Type	ARM Cortex-M4
DAC	12-bit x 1

Floating Point Unit	Single Precision
GPIOs	40
Human Machine Interface	FlexIO
HW dev. tools	MAPS-KS22F256
I2C	2
I2S	2
On-chip SRAM	64
Operating Frequency (Max) (MHz)	120
Other analog blocks	Comparator
Package dimension (WxLxH) (mm3)	10x10x1.6
Package type	LQFP
Pin pitch (mm)	0.5
Sample Exception Availability	N
Security	CRC
SPI	2
Total Flash (KByte)	128
UART	4
USB	1 (FS)
USB features	Device Crystal-less (FS)
VDD (Max) (V)	3.6
VDD (Min) (V)	1.71

ABOUT NXP

[Investors](#)

[Partners](#)

[Careers](#)

RESOURCES

[Mobile Apps](#)

[Press, News, Blogs](#)

[Contact Us](#)

FOLLOW US



News 15 Feb 2017



NXP Wins Prestigious Automotive Innovation Award with Radar

[Read More](#)