

## S912DG128H4VPVER :Part Detail

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### General Information

Part Number	S912DG128H4VPVER
Description	16 BIT MICROCONTR W/SGF
Product Line	GGFLDT28
PTI	MCDD
Material Type	Tested Packaged Device
Life Cycle Description (code) (/webapp/sps/site/eialink.jsp)	NOT RECOMMENDED(DECLINING)
Status	Not Recommended for New Design
Application/Qualification Tier (/webapp/sps/site/aqtlink.jsp?type=pop_up)	AUTO; >=10 YEARS APPLICATION LIFE

### Package Information

Package Type and Termination Count	LQFP 112
Package Description and Mechanical Drawing	LQFP 112 20*20*1.4P0.65
Device Weight(g)	1.27830
Package Material	Plastic
Mounting Style	Surface Mount
Package Length (nominal)(mm)	20.000
Package Width (nominal)(mm)	20.000
Package Thickness (nominal)(mm)	1.000
Maximum Height Above Board(mm)	1.600
Tape & Reel	Yes

### Environmental and Compliance Information

Pb-Free ( <a href="http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=PBFREE_INFO&amp;type=pop_up">http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=PBFREE_INFO&amp;type=pop_up</a> )	
RoHS Compliant ( <a href="http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=ROHS_INFO&amp;type=pop_up">http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=ROHS_INFO&amp;type=pop_up</a> )	
Halogen Free ( <a href="http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=HALOGEN_FREE_INFO">http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=HALOGEN_FREE_INFO</a> )	Yes
Material Composition Declaration (MCD) ( <a href="http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=ROHS_MCD&amp;type=pop_up">http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=ROHS_MCD&amp;type=pop_up</a> )	<a href="/mcds/S912DG128H4VPVER.pdf">Download MCD Report (/mcds/S912DG128H4VPVER.pdf)</a> <a href="/mcds/S912DG128H4VPVER.xls">Download MCD Report (/mcds/S912DG128H4VPVER.xls)</a>
RoHS Certificate of Analysis (CoA)	<a href="http://www.nxp.com/webapp/search.partspecedetail.framework?PART_NUMBER=S912DG128H4VPVER">Download RoHS CoAReport (http://www.nxp.com/webapp/search.partspecedetail.framework?PART_NUMBER=S912DG128H4VPVER)</a>
2nd Level Interconnect ( <a href="http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=PLATING_INDICATOR_INFO">http://www.nxp.com/webapp/sps/utis/showCollateral.jsp?code=PLATING_INDICATOR_INFO</a> )	e3
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 (/files/corporate/doc/support_info/NXP-REACH-STATEMENT.pdf)
UL94 (plastics flammability test)	V0; Burning stops within 10 seconds on a vertical specimen; no drips allowed

## Manufacturing Information

Micron Size(μm)	.5
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## Ordering Information

Minimum Package Quantity (MPQ)	500
MPQ Container	REEL
Exempt from Minimum Delivery Value	No
Preferred Order Quantity (POQ)	500
POQ Container	BOX
Leadtime (weeks)	8
Export Control Classification Number (US)	EAR99
Harmonized Tariff (US) Disclaimer (/webapp/sps/site/harmTariffDisclaim.jsp)	8542.31.0000
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
Budgetary Price excluding tax(US\$) (/webapp/sps/site/bplink.jsp) Change Currency	-
Order	

## Operating Characteristics

ADC	8-ch. 10-bit
ADC (bit)	10
ADC (ch)	8
Additional Features	COP Internal Voltage Regulator PLL
Ambient Operating Temperature (Min-Max) (°C)	-40 to 105
Bus Frequency (Max) (MHz)	25
CAN	2
CAN Type	CAN 2.0 A/B
Core Type	S12
EEPROM (KB)	2
GPIOs	91
I2C	1
Internal Flash (KB)	128
Internal RAM (KB)	8
PWM	8-ch. 8-bit
PWM (bit)	8

PWM(ch)	8
Sample Exception Availability	N
SCI	2
SPI	2
Timers	8-ch. 16 bit

## Reliability Data Lookup

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