

LS1021AXE7KQB :Part Detail

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GENERAL INFORMATION

Part Number	LS1021AXE7KQB
Description	LS1 32Bit ARM SoC, 1GHz, DDR3/4, LCDC, vTSEC, PCIe, USB3, SATA3, uQE, CAN, SEC, -40 to 105C, Rev2.0
Product Line	GCLS1E
PTI	NLRA
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	FCPBGA 525
Package Description and Mechanical Drawing	FCPBGA 525 19*19*1.92 .8
Device Weight(g)	0.95540
Package Length (nominal)(mm)	19.000
Package Width (nominal)(mm)	19.000
Package Thickness (nominal)(mm)	1.620
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)	Download RoHS CoA Report
2nd Level Interconnect	e1
Moisture Sensitivity Level (MSL)	3
Floor Life	168 HOURS

Peak Package Body Temperature (PPT)(°C)	250
Maximum Time at Peak Temperature (s)	30
Number of Reflow Cycles	3
REACH SVHC	NXP REACH Statement

MANUFACTURING INFORMATION

Micron Size(μm)	.028
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ORDERING INFORMATION

Minimum Package Quantity (MPQ)	84
MPQ Container	TRAY
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	420
POQ Container	BOX
Leadtime (weeks)	16
Export Control Classification Number (US)	5A002
Harmonized Tariff (	
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
Budgetary Price excluding tax(US Currency	1000 @ US each
Order	

OPERATING CHARACTERISTICS

Additional Features	ASRC RS485 SPDIF Transmitter
Ambient Operating Temperature (Min-Max) (°C)	-40 to 105
Cache (KB)	32
CAN	4
Co Processor Type	uQE
Core Type	ARM Cortex-A7
Core: Number of cores (Spec)	2
DUART	2
Ethernet Type	VeTSEC SGMII RGMII 1GBaseT

External Bus Interface	IFC PCI-Express
External Memory Supported	DDR3 DDR4
I2C	3
L2 Cache (Max) (KB)	512
Operating Frequency (Max) (MHz)	1000
Sample Exception Availability	N
SPI	2
Video/Display features	2D-ACE

Reliability Data Lookup

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