



LS1028ASE7PQA(Active)

QorIQ® Layerscape 1028A Industrial Applications Processor

- [Data Sheet](#)
- [Product Summary](#)
- [Software & Tools](#)

Package [FBGA448](#) FBGA448, fine-pitch ball grid array package, 448 terminals, 0.75 mm pitch, 17 mm x 17 mm x 2.46 mm body



- [Buy Options](#)
- [Operating Characteristics](#)
- [Environmental Information](#)
- [Quality Information](#)
- [Shipping Information](#)

Buy Options

LS1028ASE7PQA
935392923557
Active
TRAY-Tray, Bakeable, Multiple in Drypack

Min. Package Quantity: 90

Lead Time: 18 weeks

1K @ US
▾

Available Distributors: LS1028ASE7PQA
↺

Operating Characteristics

Parameter	Value
Silicon Rev	Rev 1
Family	QorIQ LS1028A
Development Tools	LS1028A-RDB
Qualification tier	Industrial
Core Type	Arm Cortex-A72
Core: Number of cores (SPEC)	2
Operating Frequency [Max] (MHz)	1500
L2 Cache (Max) (KB)	1024
SRAM (kB)	256
External Memory Supported	DDR3L SDRAM,DDR4 SDRAM
DRAM frequency (max)(MHz)	1600
GPU 2D / GPU 3D	Vivante GC7000UL
Serial Audio Interface (SAI)	6

Parameter	Value
I ² S	6
SPI	3
UART	8
I ² C	8
USB Controllers	2
PCIe	2
PCIe version	PCIe 3.0
SATA	1 x SATA 3.0
Encryption	Y
Watchdog timer	Y
Timers	8
Debug & Trace	JTAG
Junction Temperature (Min to Max) (°C)	105 to 0

Environmental Information

Material Declaration	Pb-Free	EU RoHS	Halogen Free	RHF Indicator	REACH SVHC	Weight (mg)
LS1028ASE7PQA(935392923557)	Yes	Yes	Yes	D	REACH SVHC	1103.9

Quality Information

Material Declaration	Safe Assure Functional Safety	Moisture Sensitivity Level (MSL)	Peak Package Body Temperature (PPT) (C°)	Maximum Time at Peak Temperatures (s)
		Lead Free Soldering	Lead Free Soldering	Lead Free Soldering
LS1028ASE7PQA (935392923557)	No	3	260	40

Shipping Information

Part Number	Harmonized Tariff (US) Disclaimer	Export Control Classification Number (US)	CCATS
LS1028ASE7PQA (935392923557)	854231	5A002A1	G175850

News 18 Jun 2020 | NXP, Mastercard, and Xiaomi Expand Global Reach for Mobile Payments into Europe [Read More](#)



[ABOUT NXP](#) [CAREERS](#) [INVESTORS](#) [MEDIA](#) [CONTACT](#) [SUBSCRIBE](#)



[Privacy](#) | [Terms of Use](#) | [Terms of Sale](#) | [Slavery and Human Trafficking Statement](#) | [Accessibility](#)

©2006-2020 NXP Semiconductors. All rights reserved.