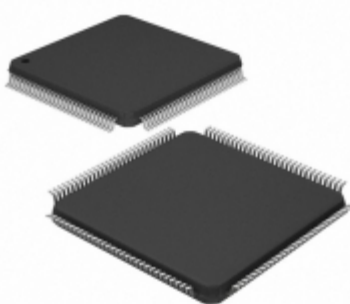


ML610Q421P-NNNTB0ARL





Part Number: [ML610Q421P-NNNTB0ARL](#)

Manufacturer: [LAPIS Semiconductor](#)

Description: IC MCU 8BIT 32KB FLASH 120TQFP

Data sheet:  [ML610\(Q\)421/422 User Manual](#)
 [ML610Q421/Q422](#)

RoHs Status: Lead free / RoHS Compliant

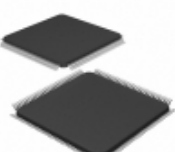
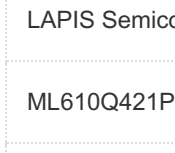
Ship From: Hong Kong

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Images are for reference only.
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PRODUCT PARAMETER			
Part Number	ML610Q421P-NNNTB0ARL	Manufacturer	LAPIS Semiconductor
Description	IC MCU 8BIT 32KB FLASH 120TQFP	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	24528 pcs	Data sheet	ML610(Q)421/422 User Manual ML610Q421/Q422
Category	Integrated Circuits (ICs)	Voltage - Supply (Vcc/Vdd)	1.1 V ~ 3.6 V
Supplier Device Package	120-TQFP (14x14)	Speed	4.2MHz
Series	ML610400	RAM Size	2K x 8
Program Memory Type	FLASH	Program Memory Size	32KB (16K x 16)
Peripherals	LCD, Melody Driver, POR, PWM, WDT	Packaging	Tray
Package / Case	120-TQFP	Other Names	ML610Q421P-NNNTB0 ML610Q421PNNTB0ARL
Oscillator Type	Internal	Operating Temperature	-40°C ~ 85°C (TA)
Number of I/O	22	Moisture Sensitivity Level (MSL)	3 (168 Hours)
Manufacturer Standard Lead Time	20 Weeks	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
EEPROM Size	-	Detailed Description	nX-U8/100 ML610400 Microcontroller IC 8-Bit 4.2MHz 32KB (16K x 16) FLASH 120-TQFP (14x14)
Data Converters	A/D 2x12b, 2x24b	Core Size	8-Bit
Core Processor	nX-U8/100	Connectivity	I²C, SSP, UART/USART
Base Part Number	ML610Q421		
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	Part#: ML610Q412 REFBOARD Description: BOARD REF ML610Q412/ML610Q412P	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q422P-NNNTB0ARL Description: IC MCU 8BIT 32KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q422-NNNTBZ03A7 Description: IC MCU 8BIT 32KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q411-NNNTBZ03A7 Description: IC MCU 8BIT 16KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q411P-NNNTB0ARL Description: IC MCU 8BIT 16KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q422P-NNNTBZ03A Description: IC MCU 8BIT 32KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q411P-NNNTB03A7 Description: IC MCU 8BIT 16KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q429 REFBOARD Description: BOARD REF ML610Q429/ML610Q429P	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q411 REFBOARD Description: BOARD REF ML610Q411/ML610Q411P	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q428-NNNTBZ0AL Description: IC MCU 8BIT 48KB FLASH 128TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q428 REFBOARD Description: BOARD REF ML610Q428/ML610Q428P	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q428-NNNTBZ03A7 Description: IC MCU 8BIT 48KB FLASH 128TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q412P-NNNTB0ARL Description: IC MCU 8BIT 16KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q421-NNNTBZ03A7 Description: IC MCU 8BIT 32KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q421P-NNNTBZ0AA Description: IC MCU 8BIT 32KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q412-NNNTBZ03A7 Description: IC MCU 8BIT 16KB FLASH 120TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q429-NNNTBZ03A7 Description: IC MCU 8BIT 48KB FLASH 128TQFP	Manufacturers: LAPIS Semiconductor	RFQ
	Part#: ML610Q421 REFBOARD Description: BOARD REF ML610Q421/ML610Q421P	Manufacturers: LAPIS Semiconductor	RFQ

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