

微控制器

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*1 U16：RISC方式 16bit CPU nX-U16/100核
*2 U8：RISC方式 8bit CPU nX-U8/100核

 点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

通用微控制器(16bit)

多用途 ML62Q1000系列(U16*1)

(LAPIS Technology产品)

ML62Q1300组 ROM容量：16KB to 64KB 引脚个数：16pin to 32pin																												
Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)		16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*2
						Input	Output	Input/Output	High Speed	Low Speed										I²C	SSIO	UART						
ML62Q1323	1.6 to 5.5	Flash	16K	2K	2K	—	—	12	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5µs	4.3µA (Internal RC oscillation)	-40 to +105		4 (8bit×8)	4 (TMR, PWM, Capture)	1	10bit×6 (SA type)	—	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2	VLS×1	—	8	Safety function, Multiplier/Divider, Comparator×1, DMA	P-SSOP16-0225-0.65-TK6	✓	
ML62Q1324			24K																							P-WQFN16-0404-0.50-63	✓	
ML62Q1325			32K																							P-WQFN16-0404-0.50-63	✓	
ML62Q1333	1.6 to 5.5	Flash	16K	2K	2K	—	—	16	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5µs	4.3µA (Internal RC oscillation)	-40 to +105		4 (8bit×8)	4 (TMR, PWM, Capture)	1	10bit×8 (SA type)	—	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2	VLS×1	—	8	Safety function, Multiplier/Divider, Comparator×1, DMA	P-TSSOP20-0225-0.65-TK6	✓	
ML62Q1334			24K																							P-TSSOP20-0225-0.65-TK6	✓	
ML62Q1335			32K																							P-TSSOP20-0225-0.65-TK6	✓	
ML62Q1345	1.6 to 5.5	Flash	32K	2K	4K	—	—	20	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5µs	4.3µA (Internal RC oscillation)	-40 to +105		6 (8bit×12)	4 (TMR, PWM, Capture)	1	10bit×8 (SA type)	8bit×1	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2	VLS×1	—	8	Safety function, Multiplier/Divider, Comparator×1, DMA	P-WQFN24-0404-0.50-A63	✓	
ML62Q1346			48K																							P-WQFN24-0404-0.50-A63	✓	
ML62Q1347			64K																							P-WQFN24-0404-0.50-A63	✓	
ML62Q1365	1.6 to 5.5	Flash	32K	2K	4K	—	—	28	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5µs	4.3µA (Internal RC oscillation)	-40 to +105		6 (8bit×12)	4 (TMR, PWM, Capture)	1	10bit×8 (SA type)	8bit×1	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2	VLS×1	—	8	Safety function, Multiplier/Divider, Comparator×1, DMA	P-WQFN32-0505-0.50-A63	✓	
ML62Q1366			48K																							P-WQFN32-0505-0.50-A63	✓	
ML62Q1367			64K																							P-TQFP32-0707-0.80-ZK6	✓	

*1 U16：RISC方式的16bit CPU nX-U16/100核

*2 工业设备用途的详情请垂询本公司。

ML62Q1000系列品名构成说明

M	L	6	2	Q	1	3	6	7		N	N	N	T	B	X	X	X	X
①		②		③	④			⑤	⑥			⑦		⑧				

品名编号

- ①元器件类型

ML: 逻辑产品

②CPU内核类型

62: 16bit CPU nX-U16/100

③ROM类型

Q: 闪存ROM
- ⑤选项代码

None~x：对每个产品进行设定

⑥ROM代码

NNN：留空

001~xxx: 定制代码
- ⑦封装代码

GD: WQFN

MB: SSOP

TD: TSSOP

TB: TQFP

GA: QFP

⑧公司内部代码
- ④型号代码

13xx: ML62Q1300组

2x: 16pin

3x: 20pin

4x: 24pin

6x: 32pin

x3: ROM 16KB

x4: ROM 24KB

x5: ROM 32KB

x6: ROM 48KB

x7: ROM 64KB

15xx: ML62Q1500组

3x: 48pin

4x: 52pin

5x: 64pin

6x: 80pin

7x: 100pin

x0: ROM 32KB

x1: ROM 48KB

x2: ROM 64KB

x3: ROM 96KB

x4: ROM 128KB

x5: ROM 160KB

x6: ROM 192KB

x7: ROM 256KB

17xx: ML62Q1700组 (内置LCD驱动器)

0x: 48pin

1x: 52pin

2x: 64pin

3x: 80pin

4x: 100pin

x0: ROM 32KB

x1: ROM 48KB

x2: ROM 64KB

x3: ROM 96KB

x4: ROM 128KB

x5: ROM 160KB

x6: ROM 192KB

x7: ROM 256KB

x8: ROM 384KB

x9: ROM 512KB

18xx: ML62Q1800组

5x: 64pin

6x: 80pin

7x: 100pin

x8: ROM 384KB

x9: ROM 512KB

通用微控制器(16bit)

多用途 ML62Q1000系列(U16*1)

(LAPIS Technology产品)

ML62Q1500组 ROM容量：32KB to 256KB 引脚个数：48pin to 100pin																												
Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)		16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade ^{*2}
						Input	Output	Input/Output	High Speed	Low Speed										I²C	SSIO	UART						
ML62Q1530	1.6 to 5.5	Flash	32K	4K	8K	2	—	42	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2	VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP48-0707-0.50-ZK6	✓	
ML62Q1531			48K																							P-TQFP48-0707-0.50-ZK6	✓	
ML62Q1532			64K																							P-TQFP48-0707-0.50-ZK6	✓	
ML62Q1533			96K																							P-TQFP48-0707-0.50-ZK6	✓	
ML62Q1534			128K																							P-TQFP48-0707-0.50-ZK6	✓	
ML62Q1540	1.6 to 5.5	Flash	32K	4K	8K	2	—	46	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2	VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP52-1010-0.65-ZK6	✓	
ML62Q1541			48K																							P-TQFP52-1010-0.65-ZK6	✓	
ML62Q1542			64K																							P-TQFP52-1010-0.65-ZK6	✓	
ML62Q1543			96K																							P-TQFP52-1010-0.65-ZK6	✓	
ML62Q1544			128K																							P-TQFP52-1010-0.65-ZK6	✓	
ML62Q1550	1.6 to 5.5	Flash	32K	4K	8K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2	VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓	
ML62Q1551			48K																							P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓	
ML62Q1552			64K																							P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓	
ML62Q1553			96K																							P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓	
ML62Q1554			128K																							P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓	
ML62Q1555			160K	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓																							
ML62Q1556			192K	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓																							
ML62Q1557			256K	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓																							
ML62Q1563			1.6 to 5.5	Flash	96K	4K	16K	2	—	72	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6	VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6
ML62Q1564	128K	P-QFP80-1414-0.65-ZK6			✓																							
ML62Q1565	160K	P-QFP80-1414-0.65-ZK6			✓																							
ML62Q1566	192K	P-QFP80-1414-0.65-ZK6			✓																							
ML62Q1567	256K	P-QFP80-1414-0.65-ZK6			✓																							
ML62Q1573	1.6 to 5.5	Flash	96K	4K	16K	2	—	92	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6	VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓	
ML62Q1574			128K																							P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓	
ML62Q1575			160K																							P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓	
ML62Q1576			192K																							P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓	
ML62Q1577			256K																							P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓	
ML62Q1543C	1.6 to 5.5	Flash	96K	4K	8K	2	—	46	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×3	VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP52-1010-0.65-ZK6	✓	
ML62Q1544C			128K																							P-TQFP52-1010-0.65-ZK6	✓	
ML62Q1553C	1.6 to 5.5	Flash	96K	4K	8K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×4	VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓	
ML62Q1554C			128K																							P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓	
ML62Q1563C	1.6 to 5.5	Flash	96K	4K	8K	2	—	74	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×4	VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6	✓	
ML62Q1564C			128K																							P-QFP80-1414-0.65-ZK6	✓	

多用途 ML62Q1000系列(U16*1)

(LAPIS Technology产品)

*2 工业设备用途的详情请垂询本公司。

通用微控制器(16bit)

多用途 ML62Q1000系列(U16*1)

(LAPIS Technology产品)

ML62Q1800组 ROM容量：384KB to 512KB 引脚个数：64pin to 100pin																												
Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)		16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*2
						Input	Output	Input/Output	High Speed	Low Speed										I²C	SSIO	UART						
ML62Q1858	1.6 to 5.5	Flash	384K	8K	32K	2	—	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2	VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓	
ML62Q1859			512K																							P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓	
ML62Q1868	1.6 to 5.5	Flash	384K	8K	32K	2	—	72	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6	VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6	✓	
ML62Q1869			512K																							P-QFP80-1414-0.65-ZK6	✓	
ML62Q1878	1.6 to 5.5	Flash	384K	8K	32K	2	—	92	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	-40 to +105		8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6	VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓	
ML62Q1879			512K																							P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓	

*1 U16：RISC方式的16bit CPU nX-U16/100核
*2 工业设备用途的详细请垂询本公司。

通用微控制器(16bit)

低功耗 ML62Q2000系列/ML62Q2500组(U16*1)

(LAPIS Technology产品)

ROM容量：64KB to 128KB 引脚个数：32pin to 48pin																												
Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT*2)	Operating Temperature (°C)		16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*3
						Input	Output	Input/Output	High Speed	Low Speed										I ² C	SSIO	UART						
ML62Q2502	1.8 to 5.5	Flash	64K	4K	8K	3	—	24	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	0.6μA (Internal RC oscillation)	-40 to +105	6	2 (TMR, PWM, Capture)	1	12bitx14 (SA type)	—	Master/ Slavex1, Masterx1	2	Full Duplex x3	VLSx1	—	8	Safety function, Multiplier/Divider	P-TQFP32-0707-0.80-ZK6	✓	
ML62Q2504			128K																							P-WQFN32-0505-0.50-A63	✓	
ML62Q2522	1.8 to 5.5	Flash	64K	4K	8K	3	—	32	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	0.6μA (Internal RC oscillation)	-40 to +105	6	2 (TMR, PWM, Capture)	1	12bitx14 (SA type)	—	Master/ Slavex1, Masterx1	2	Full Duplex x3	VLSx1	—	8	Safety function, Multiplier/Divider	P-WQFN40-0606-0.50-63	✓	
ML62Q2524			128K																							P-WQFN40-0606-0.50-63	✓	
ML62Q2532	1.8 to 5.5	Flash	64K	4K	8K	3	—	40	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	0.6μA (Internal RC oscillation)	-40 to +105	6	2 (TMR, PWM, Capture)	1	12bitx14 (SA type)	—	Master/ Slavex1, Masterx1	2	Full Duplex x3	VLSx1	—	8	Safety function, Multiplier/Divider	P-TQFP48-0707-0.50-ZK6	✓	
ML62Q2534			128K																							P-WQFN48-0707-0.50-ZK6	✓	

*1 U16：RISC方式的16bit CPU nX-U16/100核

*2 HALT-D模式时。

*3 工业设备用途的详情请垂询本公司。

通用微控制器(16bit)

具备语音播放功能 ML62Q2000系列/ML62Q2700组(U16*1)

(LAPIS Technology产品)

搭载LCD驱动器 ROM容量：64KB to 256KB 引脚个数：48pin to 100pin																												
Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT*2)	Operating Temperature (°C)		16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*3
						Input	Output	Input/Output	High Speed	Low Speed										I²C	SSIO	UART						
ML62Q2702	1.8 to 5.5	Flash	64K	4K	8K	3	—	35	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.7μA (Internal RC oscillation)	-40 to +105	6	6 (TMR, PWM, Capture)	1	12bitx12 (SA type)	—	Master/ Slavex1, Masterx2	3	Full Duplex x2	VLSx1	Max 192dot 24segx 8com	9	Safety function, Multiplier/Divider, Speech playback function/ ADPCM2 decoder	P-TQFP48-0707-0.50-ZK6	✓	
ML62Q2703			96K																							P-WQFN48-0707-0.50-63	✓	
ML62Q2712	1.8 to 5.5	Flash	64K	4K	8K	3	—	39	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.7μA (Internal RC oscillation)	-40 to +105	6	6 (TMR, PWM, Capture)	1	12bitx12 (SA type)	—	Master/ Slavex1, Masterx2	3	Full Duplex x2	VLSx1	Max 216dot 27segx 8com	9	Safety function, Multiplier/Divider, Speech playback function/ ADPCM2 decoder	P-TQFP52-1010-0.65-ZK6	✓	
ML62Q2713			96K																							P-TQFP52-1010-0.65-ZK6	✓	
ML62Q2722	1.8 to 5.5	Flash	64K	4K	8K	3	—	51	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.7μA (Internal RC oscillation)	-40 to +105	6	6 (TMR, PWM, Capture)	1	12bitx12 (SA type)	—	Master/ Slavex1, Masterx2	3	Full Duplex x2	VLSx1	Max 280dot 35segx 8com	9	Safety function, Multiplier/Divider, Speech playback function/ ADPCM2 decoder	P-QFP64-1414-0.80-ZK6	✓	
ML62Q2723			96K																							P-QFP64-1414-0.80-ZK6	✓	
ML62Q2725	1.8 to 5.5	Flash	160K	4K	16K	3	—	51	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.9μA (Internal RC oscillation)	-40 to +105	8	8 (TMR, PWM, Capture)	1	12bitx12 (SA type)	—	Master/ Slavex1, Masterx2	7	Full Duplex x6	VLSx1	Max 280dot 35segx 8com	9	Safety function, Multiplier/Divider, Speech playback function/ ADPCM2 decoder	P-QFP64-1414-0.80-ZK6	✓	
ML62Q2726			192K																							P-TQFP64-1010-0.50-ZK6	✓	
ML62Q2727			256K																							P-QFP64-1414-0.80-ZK6	✓	
ML62Q2735	1.8 to 5.5	Flash	160K	4K	16K	3	—	65	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.9μA (Internal RC oscillation)	-40 to +105	8	8 (TMR, PWM, Capture)	1	12bitx16 (SA type)	—	Master/ Slavex1, Masterx2	7	Full Duplex x6	VLSx1	Max 360dot 45segx 8com	9	Safety function, Multiplier/Divider, Speech playback function/ ADPCM2 decoder	P-QFP80-1414-0.65-ZK6	✓	
ML62Q2736			192K																							P-QFP80-1414-0.65-ZK6	✓	
ML62Q2737			256K																							P-QFP80-1414-0.65-ZK6	✓	
ML62Q2745	1.8 to 5.5	Flash	160K	4K	16K	3	—	85	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.9μA (Internal RC oscillation)	-40 to +105	8	8 (TMR, PWM, Capture)	1	12bitx16 (SA type)	—	Master/ Slavex1, Masterx2	7	Full Duplex x6	VLSx1	Max 480dot 60segx 8com	9	Safety function, Multiplier/Divider, Speech playback function/ ADPCM2 decoder	P-QFP100-1420-0.65-BK6	✓	
ML62Q2746			192K																							P-QFP100-1414-0.50-ZK6	✓	
ML62Q2747			256K																							P-QFP100-1420-0.65-BK6	✓	

*1 U16：RISC方式的16bit CPU nX-U16/100核

*2 HALT-D模式时。

*3 工业设备用途的详情请垂询本公司。

ML62Q2000系列品名构成说明

M	L	6	2	Q	2	5	0	2		N	N	N	T	B	X	X	X	X
①	②	③	④			⑤			⑥	⑦		⑧						

品名编号

- ①元器件类型
ML: 逻辑产品

②CPU内核类型
62: 16bit CPU nX-U16/100

③ROM类型
Q: 闪存ROM

④型号代码
25xx: ML62Q2500组
0x: 32pin
2x: 40pin
3x: 48pin

x2: ROM 64KB
x4: ROM 128KB
- ⑤选项代码
None~x：对每个产品进行设定

⑥ROM代码
NNN：留空
001~xxx: 定制代码

27xx: ML62Q2700组(内置LCD驱动器)
0x: 48pin
1x: 52pin
2x: 64pin
3x: 80pin
4x: 100pin

x2: ROM 64KB
x3: ROM 96KB
x5: ROM 160KB
x6: ROM 192KB
x7: ROM 256KB
- ⑦封装代码
GD: WQFN
TB: TQFP
GA: QFP

⑧公司内部代码

开关电源控制微控制器(16bit)

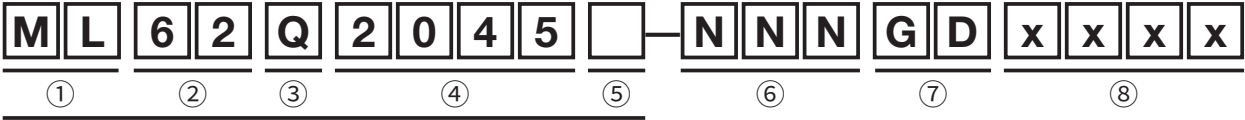
电源控制用 ML62Q20xx组(U16*1)

(LAPIS Technology产品)

ROM容量：16KB to 48KB 引脚个数：20pin to 48pin																													
Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature*2 (°C)		16bit Timer	Operational timer (16bit timer)	Operational timer (8bit timer)	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*3
						Input	Output	Input/Output	High Speed	Low Speed											PC	SSIO	UART						
ML62Q2033	4.5 to 5.5	Flash	16K	4K	2K	1	—	16	16MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	62.5ns/ 30.5μs	90μA (Internal RC oscillation)	-40 to +115		1	CH: 6/ OUTPUT: 10 (PWM, Capture)	—	1	12bitx5 (SA type)	8bitx2	Master/ Slavex1	—	Full Duplex/ Half Duplex2	LLDx1	—	4	Safety function, Multiplier/Divider, Programable-Gain-Ampx1, Analog comparatordx3	P-TSSOP20-0225-0.65-TK6	✓
ML62Q2035			32K																									P-TSSOP20-0225-0.65-TK6	✓
ML62Q2043	4.5 to 5.5	Flash	16K	4K	2K	1	—	20	16MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	62.5ns/ 30.5μs	90μA (Internal RC oscillation)	-40 to +115		1	CH: 6/ OUTPUT: 13 (PWM, Capture)	—	1	12bitx5 (SA type)	8bitx2	Master/ Slavex1	—	Full Duplex/ Half Duplex2	LLDx1	—	4	Safety function, Multiplier/Divider, Programable-Gain-Ampx1, Analog comparatordx3	P-WQFN24-0404-0.50-A63	✓
ML62Q2045			32K																									P-WQFN24-0404-0.50-A63	✓
☆ML62Q2055	4.5 to 5.5	Flash	32K	8K	4K	1	—	28	16MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	62.5ns/ 30.5μs	TBD (Internal RC oscillation)	-40 to +125		1	CH: 6/ OUTPUT: 13 (PWM, Capture)	CH: 6/ OUTPUT: 15 (PWM, Capture)	1	12bitx13 (SA type)	8bitx2 9bitx2	Master/ Slavex1	—	Full Duplex/ Half Duplex3	LLDx1	—	6	Safety function, Multiplier/Divider, Programable-Gain-Ampx2, Analog comparatordx4	P-TQFP32-0707-0.80-ZK6	✓
☆ML62Q2056			48K																									P-TQFP32-0707-0.80-ZK6	✓
☆ML62Q2065	4.5 to 5.5	Flash	32K	8K	4K	1	—	44	16MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	62.5ns/ 30.5μs	TBD (Internal RC oscillation)	-40 to +125		1	CH: 6/ OUTPUT: 20 (PWM, Capture)	CH: 6/ OUTPUT: 24 (PWM, Capture)	1	12bitx13 (SA type)	8bitx2 9bitx2	Master/ Slavex1	—	Full Duplex/ Half Duplex3	LLDx1	—	6	Safety function, Multiplier/Divider, Programable-Gain-Ampx2, Analog comparatordx4	P-TQFP48-0707-0.50-ZK6	✓
☆ML62Q2066			48K																									P-TQFP48-0707-0.50-ZK6	✓

*1 U16：RISC方式的16bit CPU nX-U16/100核
*2 工作温度(结点)
*3 工业设备用途的详情请垂询本公司。
☆: 开发中。本目录中的信息，如遇产品更新等其他原因而发生变更，恕不另行通知。

开关电源控制微控制器(16bit) 品名构成说明



品名编号

- ①元器件类型

ML: 逻辑产品
- ②CPU内核类型

62: 16bit CPU nX-U16/100
- ③ROM类型

Q: 闪存ROM
- ④型号代码

20xx: ML62Q20xx组

3x: 20pin

4x: 24pin

5x: 32pin

6x: 48pin

x3: ROM 16KB

x5: ROM 32KB

x6: ROM 48KB
- ⑤选项代码

None～x：对每个产品进行设定
- ⑥ROM代码

NNN : 留空

001～xxx: 定制代码
- ⑦封装代码

GD: WQFN

TD: TSSOP

TB: TQFP
- ⑧公司内部代码

语音播放微控制器(8bit)

搭载大功率功放 ML610Q300组(U8*1)

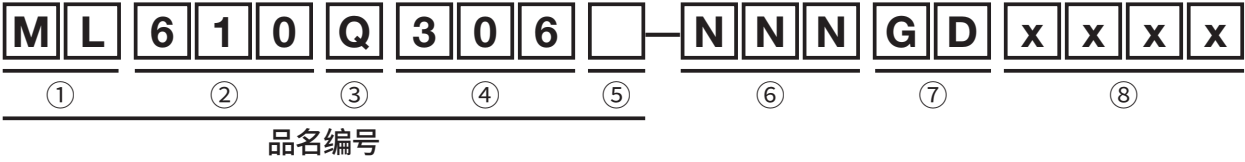
(LAPIS Technology产品)

ROM容量：96KB to 256KB 引脚个数：32pin to 64pin																													
Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	Memory for Sound	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)		8bit Timer	PWM	WDT	ADC (method)	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	SP Amp Output (W)/ Class	Others	Package	Industrial Grade ^{*2}
							Input	Output	Input/Output	High Speed	Low Speed									I²C	SSIO	UART							
ML610Q305	2.0 to 5.5	Flash	96K	2K	Flash ROM	1K	1	3	12	8.192MHz	32.768kHz (Internal RC oscillation)	0.122μs/30.5μs	2.0μA	−40 to +85		4 (16bit×2)	—	1	10bit×3 (SA type)	Master/Slavex1	2	Half Duplex x1	LLDx1	—	9	1.0 (@5V)/D class	Speech playback function/ADPCM2 HQ-ADPCM decoder/Built-in speaker Amplifier	P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	✓
ML610Q306									15										10bit×4 (SA type)									P-WQFN36-0606-0.50-A63	✓
ML610Q327	2.0 to 5.5	Flash	192K	2K	Flash ROM	4K	—	6	26	8.192MHz	32.768kHz (Internal RC oscillation)	0.122μs/30.5μs	2.0μA	−40 to +85		4 (16bit×2)	3	1	10bit×8 (SA type)	Master/Slavex1	2	Half Duplex x2	LLDx1	—	8	1.0 (@5V)/D class	Speech playback function/ADPCM2 HQ-ADPCM decoder/Built-in speaker Amplifier	P-TQFP48-0707-0.50-ZK6	✓
ML610Q338	2.0 to 5.5	Flash	256K	2K	Flash ROM	4K	—	6	30	8.192MHz	32.768kHz (Internal RC oscillation)	0.122μs/30.5μs	2.0μA	−40 to +85		4 (16bit×2)	3	1	10bit×8 (SA type)	Master/Slavex1	2	Half Duplex x2	LLDx1	—	8	1.0 (@5V)/D class	Speech playback function/ADPCM2 HQ-ADPCM decoder/Built-in speaker Amplifier	P-TQFP52-1010-0.65-ZK6	✓
ML610Q339									42										P-TQFP64-1010-0.50-ZK6									✓	

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*1 U8：RISC方式的8bit CPU nX-U8/100核
*2 工业设备用途的详情请垂询本公司。

ML610Q300 group系列品名构成说明



品名编号

- ①元器件类型
ML: 逻辑产品

④型号代码
3xx: Built-in Speech Playback function

⑦封装代码
GD: WQFN
TB: TQFP
- ②CPU内核类型
610: 8bit CPU nX-U8/100

⑤选项代码
None~x：对每个产品进行设定

⑧公司内部代码
- ③ROM类型
Q: 闪存ROM

⑥ROM代码
NNN：留空
001~xxx：定制代码

USB、安全微控制器(32bit)

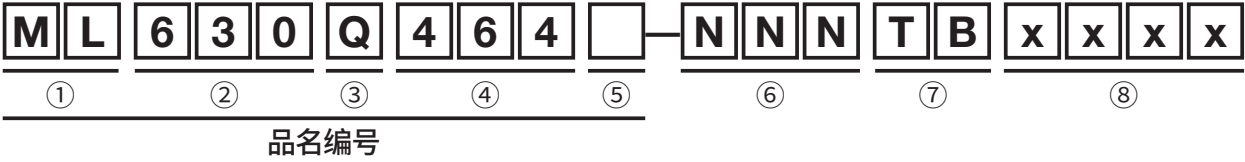
数据记录仪用 ML630Q400组(Arm® Cortex®-M0+)

(LAPIS Technology产品)

搭载LCD驱动器 ROM容量：64KB to 128KB 引脚个数：100pin																																
Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port		Operating Frequency (Max)				Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	Co-processor for Multiplication and Division	8bit Timer	16bit Multi-Functions Timer		PWM	Capture	WDT	ADC (method)	Serial Port				Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*1
						Input	Output	Input/Output	High Speed	Low Speed	I²C												SSIO (SPI)	UART	USB							
ML630Q464	1.8 to 3.6	Flash	64K	2K	8K	—	—	38	16MHz (Internal RC oscillation) 24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41.7ns/ 30.5µs	0.8µA (Crystal oscillation)	−40 to +85	32bit multiplier	8 (16bitx4)	4		16bitx4 (use 16bit Timer)	16bitx4 (use 16bit Timer)	1	24bitx2 (RC type) 12bitx12 (SA type)	Master/ Slave x2	2	Full Duplex x2	1	VLSx1, LLDx1	Max 400dot 50segx 8com	8	AES 128bit HW accelerator (CBC, CTR, CTR), Random generator, DMA, RTC, Analog comparatorx2, 1kHz Timer	P-TQFP100-1414-0.50-ZK6	✓	
ML630Q466			128K		16K																										P-TQFP100-1414-0.50-ZK6	✓

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*1 工业设备用途的详情请垂询本公司。

ML630Q400系列品名构成说明



- ①元器件类型
ML: 逻辑产品

④型号代码
4xx: Low Power

⑦封装代码
TB: TQFP
- ②CPU内核类型
630: 32bit CPU Arm® Cortex®-M0+

⑤选项代码
None～x：对每个产品进行设定

⑧公司内部代码
- ③ROM类型
Q: 闪存ROM

⑥ROM代码
NNN：留空
001～xxx：定制代码