2024 Edition

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Microcontrollers (MCUs)

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

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General-Purpose MCUs (16bit)

For Multiple Uses ML62Q1000 series (U16*1)

(LAPIS Technology products)

ML62Q1300 group ROM Capacity: 16KB to 64KB Pin Number: 16pin to 32pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port: Input	Port: Output	Port: Input/Output	Operating Frequency (Max): High Speed	Operating Frequency (Max): Low Speed	Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)		16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port: I²C	Serial Port: SSIO	Serial Port: UART	Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*2
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 P-WQFN16-0404-0.50-63	✓
ML62Q1324			24K																								P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63	✓
ML62Q1325			32K																								P-SSOP16-0225-0.65-TK6 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 P-TQFP32-0707-0.80-ZK6	✓
ML62Q1366			48K																								P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	✓
ML62Q1367			64K																								P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	✓

*1 U16: 16bit RISC CPU nX-U16/100 Core
*2 For use of industrial equipment, please inquire to the sales.

ML62Q1000 series Part Number Explanation

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			

Part Number

①Device type
ML: Bipolar Logic
②CPU Core type
62: 16bit CPU nX-U16/100
③ROM type
Q: Flash ROM

④Part Code
13xx: ML62Q1300 group
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 group
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 group
(Built-in LCD Driver)
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 group
5x: 64pin
6x: 80pin
7x: 100pin

x8: ROM 384KB
x9: ROM 512KB

⑤Option Code
None to x: Set for Product
⑥ROM Code
NNN : Blank
001 to xxx: Custom Code Number

⑦Package Code
GD: WQFN
MB: SSOP
TD: TSSOP
TB: TQFP
GA: QFP
⑧Company's Code

General-Purpose MCUs (16bit)

For Multiple Uses ML62Q1000 series (U16*1)

(LAPIS Technology products)

ML62Q1500 group ROM Capacity: 32KB to 256KB Pin Number: 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		16K	2						5.5/4.5μA (Internal RC oscillation/ Crystal oscillation)															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	✓

*1 U16: 16bit RISC CPU nX-U16/100 Core
*2 For use of industrial equipment, please inquire to the sales.

General-Purpose MCUs (16bit)

For Multiple Uses ML62Q1000 series (U16*1)

(LAPIS Technology products)

Built-In LCD Driver ML62Q1700 group ROM Capacity: 32KB to 512KB Pin Number: 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						
ML62Q1700	1.6 to 5.5	Flash	32K	4K	8K	2	–	37	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	4.9/3.3μA (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	Max 192dot 24seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP48-0707-0.50-ZK6	✓
ML62Q1701			48K																								P-TQFP48-0707-0.50-ZK6	✓
ML62Q1702			64K																								P-TQFP48-0707-0.50-ZK6	✓
ML62Q1703			96K																								P-TQFP48-0707-0.50-ZK6	✓
ML62Q1704			128K																								P-TQFP48-0707-0.50-ZK6	✓
ML62Q1710	1.6 to 5.5	Flash	32K	4K	8K	2	–	41	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	4.9/3.3μA (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	Max 216dot 27seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP52-1010-0.65-ZK6	✓
ML62Q1711			48K																								P-TQFP52-1010-0.65-ZK6	✓
ML62Q1712			64K																								P-TQFP52-1010-0.65-ZK6	✓
ML62Q1713			96K																								P-TQFP52-1010-0.65-ZK6	✓
ML62Q1714			128K																								P-TQFP52-1010-0.65-ZK6	✓
ML62Q1720	1.6 to 5.5	Flash	32K	4K	8K	2	–	53	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	4.9/3.3μA (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	Max 280dot 35seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1721			48K																								P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1722			64K																								P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1723			96K																								P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1724			128K																								P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1725			160K		16K							5.7/4.5μA (Internal RC oscillation/ Crystal oscillation)															P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1726			192K																								P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1727			256K																								P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1728			384K	8K	32K							6.0/4.5μA (Internal RC oscillation/ Crystal oscillation)															P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1729			512K																								P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1733	1.6 to 5.5	Flash	96K	4K	16K	2	–	67	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	5.7/4.5μA (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	Max 360dot 45seg× 8com	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6	✓
ML62Q1734			128K																								P-QFP80-1414-0.65-ZK6	✓
ML62Q1735			160K																								P-QFP80-1414-0.65-ZK6	✓
ML62Q1736			192K																								P-QFP80-1414-0.65-ZK6	✓
ML62Q1737			256K																								P-QFP80-1414-0.65-ZK6	✓
ML62Q1738			384K	8K	32K							6.0/4.5μA (Internal RC oscillation/ Crystal oscillation)															P-QFP80-1414-0.65-ZK6	✓
ML62Q1739			512K																								P-QFP80-1414-0.65-ZK6	✓
ML62Q1743	1.6 to 5.5	Flash	96K	4K	16K	2	–	87	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	5.7/4.5μA (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	Max 480dot 60seg× 8com	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
ML62Q1744			128K																								P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
ML62Q1745			160K																								P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
ML62Q1746			192K																								P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
ML62Q1747			256K																								P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
ML62Q1748			384K	8K	32K							6.0/4.5μA (Internal RC oscillation/ Crystal oscillation)															P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
ML62Q1749			512K																								P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
ML62Q1713C	1.6 to 5.5	Flash	96K	4K	8K	2	–	41	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	Max 216dot 27seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP52-1010-0.65-ZK6	✓
ML62Q1714C			128K																								P-TQFP52-1010-0.65-ZK6	✓
ML62Q1723C	1.6 to 5.5	Flash	96K	4K	8K	2	–	53	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	Max 280dot 35seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1724C			128K																								P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
ML62Q1733C	1.6 to 5.5	Flash	96K	4K	8K	2	–	69	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	Max 360dot 45seg× 8com	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6	✓
ML62Q1734C			128K																								P-QFP80-1414-0.65-ZK6	✓

*1 U16: 16bit RISC CPU nX-U16/100 Core
*2 For use of industrial equipment, please inquire to the sales.

General-Purpose MCUs (16bit)

For Multiple Uses ML62Q1000 series (U16*1)

(LAPIS Technology products)

ML62Q1800 group ROM Capacity: 384KB to 512KB Pin Number: 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: 16bit RISC CPU nX-U16/100 Core
*2 For use of industrial equipment, please inquire to the sales.

General-Purpose MCUs (16bit)

Low Power Consumption ML62Q2000 series/ML62Q2500 group (U16*1)

(LAPIS Technology products)

ROM Capacity: 64KB to 128KB Pin Number: 32pin to 48pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port Input	Port Output	Port Input/Output	Operating Frequency (Max) High Speed	Operating Frequency (Max) Low Speed	Minimum Instruction Execution Time	Current Consumption (Typ@HALT*2)	Operating Temperature (°C)		16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port I²C	Serial Port SSIO	Serial Port UART	Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*3
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	12bit×14 (SA type)	–	Master/ Slave×1, Master×1	2	Full Duplex ×3	VLS×1	–	8	Safety function, Multiplier/Divider	P-TQFP32-0707-0.80-ZK6 P-WQFN32-0505-0.50-A63	✓
ML62Q2504			128K																								P-TQFP32-0707-0.80-ZK6 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	12bit×14 (SA type)	–	Master/ Slave×1, Master×1	2	Full Duplex ×3	VLS×1	–	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	12bit×14 (SA type)	–	Master/ Slave×1, Master×1	2	Full Duplex ×3	VLS×1	–	8	Safety function, Multiplier/Divider	P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	✓
ML62Q2534			128K																								P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	✓

*1 U16: 16bit RISC CPU nX-U16/100 Core
*2 HALT-D mode.
*3 For use of industrial equipment, please inquire to the sales.

General-Purpose MCUs (16bit)

Build-in Speech Playback Function ML62Q2000 series/ ML62Q2700 group (U16*1)

(LAPIS Technology products)

Built-In LCD Driver ROM Capacity: 64KB to 256KB Pin Number: 48pin to 100pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port Input	Port Output	Port Input/Output	Operating Frequency (Max) High Speed	Operating Frequency (Max) Low Speed	Minimum Instruction Execution Time	Current Consumption (Typ@HALT*2)	Operating Temperature (°C)		16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port I²C	Serial Port SSIO	Serial Port UART	Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*3
New 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	12bit×12 (SA type)	–	Master/ Slave×1, Master×2	3	Full Duplex ×2	VLS×1	Max 192dot 24seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	✓
New ML62Q2703			96K																								P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	✓
New 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	12bit×12 (SA type)	–	Master/ Slave×1, Master×2	3	Full Duplex ×2	VLS×1	Max 216dot 27seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-TQFP52-1010-0.65-ZK6	✓
New ML62Q2713			96K																								P-TQFP52-1010-0.65-ZK6	✓
New 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	12bit×12 (SA type)	–	Master/ Slave×1, Master×2	3	Full Duplex ×2	VLS×1	Max 280dot 35seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
New ML62Q2723			96K																								P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
New 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	12bit×12 (SA type)	–	Master/ Slave×1, Master×2	7	Full Duplex ×6	VLS×1	Max 280dot 35seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
New ML62Q2726			192K																								P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
New ML62Q2727			256K																								P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
New 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	12bit×16 (SA type)	–	Master/ Slave×1, Master×2	7	Full Duplex ×6	VLS×1	Max 360dot 45seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-QFP80-1414-0.65-ZK6	✓
New ML62Q2736			192K																								P-QFP80-1414-0.65-ZK6	✓
New ML62Q2737			256K																								P-QFP80-1414-0.65-ZK6	✓
New 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	12bit×16 (SA type)	–	Master/ Slave×1, Master×2	7	Full Duplex ×6	VLS×1	Max 480dot 60seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	✓
New ML62Q2746			192K																								P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	✓
New ML62Q2747			256K																								P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	✓

*1 U16: 16bit RISC CPU nX-U16/100 Core
*2 HALT-D mode.
*3 For use of industrial equipment, please inquire to the sales.

ML62Q2000 series Part Number Explanation

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			

Part Number

①Device type
ML: Bipolar Logic
②CPU Core type
62: 16bit CPU nX-U16/100
③ROM type
Q: Flash ROM

④Part Code
25xx: ML62Q2500 group
0x: 32pin
2x: 40pin
3x: 48pin

x2: ROM 64KB
x4: ROM 128KB

27xx: ML62Q2700 group (Built-in LCD Driver)
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

⑤Option Code
None to x: Set for Product
⑥ROM Code
NNN : Blank
001 to xxx: Custom Code Number

⑦Package Code
GD: WQFN
TB: TQFP
GA: QFP
⑧Company's Code

Switching Power Supply Control MCUs (16bit)

For Power Supply Control ML62Q20xx group (U16*1)

(LAPIS Technology products)

ROM Capacity: 16KB to 48KB Pin Number: 20pin to 48pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port: Input	Port: Output	Port: Input/Output	Operating Frequency (Max): High Speed	Operating Frequency (Max): Low Speed	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: I²C	Serial Port: SSIO	Serial Port: UART	Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*3
New 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	12bit×5 (SA type)	8bit×2	Master/ Slave×1	–	Full Duplex/ Half Duplex×2	LLD×1	–	4	Safety function, Multiplier/Divider, Programable-Gain-Amp×1, Analog comparator×3	P-TSSOP20-0225-0.65-TK6	✓
New ML62Q2035			32K																									P-TSSOP20-0225-0.65-TK6	✓
New 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	12bit×5 (SA type)	8bit×2	Master/ Slave×1	–	Full Duplex/ Half Duplex×2	LLD×1	–	4	Safety function, Multiplier/Divider, Programable-Gain-Amp×1, Analog comparator×3	P-WQFN24-0404-0.50-A63	✓
New 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	12bit×13 (SA type)	8bit×2 9bit×2	Master/ Slave×1	–	Full Duplex/ Half Duplex×3	LLD×1	–	6	Safety function, Multiplier/Divider, Programable-Gain-Amp×2, Analog comparator×4	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	12bit×13 (SA type)	8bit×2 9bit×2	Master/ Slave×1	–	Full Duplex/ Half Duplex×3	LLD×1	–	6	Safety function, Multiplier/Divider, Programable-Gain-Amp×2, Analog comparator×4	P-TQFP48-0707-0.50-ZK6	✓
☆ML62Q2066			48K																									P-TQFP48-0707-0.50-ZK6	✓

*1 U16: 16bit RISC CPU nX-U16/100 Core
*2 Operating temperature (Chip-Junction)
*3 For use of industrial equipment, please inquire to the sales.
☆: Under Development. The contents are subject to change without notice for improvement.

Switching Power Supply Control MCUs (16bit) Part Number Explanation

M	L	6	2	Q	2	0	4	5	□	–	N	N	N	G	D	x	x	x	x
①		②		③	④				⑤		⑥			⑦		⑧			

Part Number

①Device type
ML: Bipolar Logic

②CPU Core type
62: 16bit CPU nX-U16/100

③ROM type
Q: Flash ROM

④Part Code
20xx: ML62Q20xx group

3x: 20pin
4x: 24pin
5x: 32pin
6x: 48pin

x3: ROM 16KB
x5: ROM 32KB
x6: ROM 48KB

⑤Option Code
None to x: Set for Product

⑥ROM Code
NNN: Blank
001 to xxx: Custom Code Number

⑦Package Code
GD: WQFN
TD: TSSOP
TB: TQFP

⑧Company's Code

Speech Playback MCUs (8bit)

Build-in High-Output Speaker Amplifier ML610Q300 group (U8*1)

(LAPIS Technology products)

ROM Capacity: 96KB to 256KB Pin Number: 32pin to 64pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	Memory for Sound	RAM Capacity (Byte)	Port: Input	Port: Output	Port: Input/Output	Operating Frequency (Max): High Speed	Operating Frequency (Max): Low Speed	Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)		8bit Timer	PWM	WDT	ADC (method)	Serial Port: I²C	Serial Port: SSIO	Serial Port: UART	Supply Voltage Detection	LCD Driver	External Interrupt Sources	SP Amp Output (W)/ Class	Others	Package	Industrial Grade*2
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/ Slave×1	2	Half Duplex ×1	LLD×1	—	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/ Slave×1	2	Half Duplex ×2	LLD×1	—	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/ Slave×1	2	Half Duplex ×2	LLD×1	—	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	✓

Ky's Technology HQ-ADPCM: A high quality sound compression technology developed by Ky's. Ky's is a registered trademark of Kyushu Institute of Technology.

*1 U8: 8bit RISC CPU nX-U8/100 Core
*2 For use of industrial equipment, please inquire to the sales.

ML610Q300 group Part Number Explanation

M	L	6	1	0	Q	3	0	6		—	N	N	N	G	D	x	x	x	x
①		②			③	④			⑤		⑥			⑦		⑧			

Part Name

①Device type
ML: Bipolar Logic

②CPU Core type
610: 8bit CPU nX-U8/100

③ROM type
Q: Flash ROM

④Part Code
3xx: Built-in Speech Playback function

⑤Option Code
None to x: Set for Product

⑥ROM Code
NNN: Blank
001 to xxx: Custom Code Number

⑦Package Code
GD: WQFN
TB: TQFP

⑧Company's Code

USB/Security MCUs (32bit)

For USB Data Loggers ML630Q400 group (Arm® Cortex®-M0+)

(LAPIS Technology products)

Built-In LCD Driver ROM Capacity: 64KB to 128KB Pin Number: 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 (16bit×4)	4		16bit×4 (use 16bit Timer)	16bit×4 (use 16bit Timer)	1	24bit×2 (RC type) 12bit×12 (SA type)	Master/ Slave ×2	2	Full Duplex ×2	1	VLS×1, LLD×1	Max 400dot 50seg× 8com	8	AES 128bit HW accelerator (CBC, CTR, CTR), Random generator, DMA, RTC, Analog comparator×2, 1kHz Timer	P-TQFP100-1414-0.50-ZK6	✓
ML630Q466			128K		16K																									P-TQFP100-1414-0.50-ZK6	✓

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*1 For use of industrial equipment, please inquire to the sales.

ML630Q400 group Part Number Explanation

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

Part Name

①Device type
ML: Bipolar Logic

②CPU Core type
630: 32bit CPU Arm® Cortex®-M0+

③ROM type
Q: Flash ROM

④Part Code
4xx: Low Power

⑤Option Code
None to x: Set for Product

⑥ROM Code
NNN: Blank
001 to xxx: Custom Code Number

⑦Package Code
TB: TQFP

⑧Company's Code