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	RZ Smart Configurator Flyer	Link
	QE for Motor Flyer	Link
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	Easily Evaluate High-Voltage Motor Systems in Your Lab	Link
	How to Achieve High Efficiency and Miniaturization in Motor Applications	Link
	How to Maximize the Lifespan of Electric Motors	Link
	Simpler and Safer High-Voltage Motor Control Evaluation	Link
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Device Selection					
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	2		Web page	RX24U	Link
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	4		Web page	RX72T	Link
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	1		Web page	RA4T1	Link
	2		Web page	RA6T1	Link
	2		Web page	RA6T2	Link
	1		Web page	RA6T3	Link
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2		Web page		RA8T2	Link
Ultra-high performance	2	RZ	Web page	RZ/T1	Link
	2		Web page	RZ/T2L	Link
	2		Web page	RZ/T2M	Link
	9		Web page	RZ/T2H	Link

Evaluation Kit						
Family Name	Product Name	Board Type	Description	Content	Name	LINK
RL78	RL78/G1F	Low-voltage Inverter Board	Purchase info	Web page	Evaluation System for BLDC Motor	Link
			Setup Design info	Document	Evaluation System for BLDC Motor User's Manual	Link
				Document	Evaluation System for BLDC Motor Schematic	Link
				Document	Evaluation System for BLDC Motor BOM LIST	Link
				Document	Evaluation System for BLDC Motor Pattern Drawing	Link
				Video	Evaluation System for BLDC Motor [Set-up]	Link
				Video	What is Evaluation System for BLDC Motor	Link
			Video	RL78/G1F Sensorless BLDC Motor Control	Link	
		CPU Board	Purchase info	Web page	RL78/G1F CPU Card	Link
			Setup Design info	Document	RL78/G1F CPU Card User's Manual	Link
				Document	RL78/G1F CPU Card Schematic	Link
				Document	RL78/G1F CPU Card BOM LIST	Link
				Document	RL78/G1F CPU Card Pattern Diagram	Link
			RL78/G24	All In One Kit *Including CPU Board, Inverter Board, and Motor	Purchase info	Web page
	Setup Design info	Document			RL78/G24 Motor Control Evaluation Kit User's Manual	Link
		Document			RL78/G24 Motor Control Evaluation Kit Schematic	Link
		Document			RL78/G24 Motor Control Evaluation Kit BOM LIST	Link
		Video			RL78 Motor Control Solution - How To Drive Sensorless Vector Control (1/2)	Link
	Video	RL78 Motor Control Solution - How To Drive Sensorless Vector Control (2/2)			Link	
	CPU Board	Purchase info		Web page	RL78/G24 CPU Card	Link
		Design info	Document	RL78/G24 CPU Card Schematic	Link	

Evaluation Kit								
Family Name	Product Name	Board Type	Description	Content	Name	LINK		
RX	RX13T	Low-voltage Inverter Board	Purchase info	Web page	Evaluation System for BLDC Motor	Link		
			Setup Design info	Document	Evaluation System for BLDC Motor User's Manual	Link		
				Document	Evaluation System for BLDC Motor Schematic	Link		
				Document	Evaluation System for BLDC Motor BOM LIST	Link		
				Document	Evaluation System for BLDC Motor Pattern Drawing	Link		
				Video	What is Evaluation System for BLDC Motor	Link		
				Video	Evaluation System for BLDC Motor [Set-up]	Link		
		CPU Board	Purchase info	Web page	RX13T CPU Card	Link		
			Setup Design info	Document	RX13T CPU Card User's Manual	Link		
				Document	RX13T CPU Card Schematic	Link		
				Document	RX13T CPU Card BOM LIST	Link		
				Document	RX13T CPU Card Pattern Diagram	Link		
			RX23T	Low-voltage Inverter Board	Purchase info	Web page	Evaluation System for BLDC Motor	Link
					Setup Design info	Document	Evaluation System for BLDC Motor User's Manual	Link
	Document	Evaluation System for BLDC Motor Schematic				Link		
	Document	Evaluation System for BLDC Motor BOM LIST				Link		
	Document	Evaluation System for BLDC Motor Pattern Drawing				Link		
	Video	What is Evaluation System for BLDC Motor				Link		
	Video	Evaluation System for BLDC Motor [Set-up]				Link		
	CPU Board	Purchase info		Web page	RX23T CPU Card	Link		
		Setup Design info		Document	RX23T CPU Card User's Manual	Link		
				Document	RX23T CPU Card Schematic	Link		
				Document	RX23T CPU Card BOM LIST	Link		
				Document	RX23T CPU Card Pattern Diagram	Link		
		RX24T		Low-voltage Inverter Board	Purchase info	Web page	Evaluation System for BLDC Motor	Link
					Setup Design info	Document	Evaluation System for BLDC Motor User's Manual	Link
	Document		Evaluation System for BLDC Motor Schematic			Link		
	Document		Evaluation System for BLDC Motor BOM LIST			Link		
	Document		Evaluation System for BLDC Motor Pattern Drawing			Link		
	Video		What is Evaluation System for BLDC Motor			Link		
	Video		Evaluation System for BLDC Motor [Set-up]			Link		
	CPU Board		Purchase info	Web page	RX24T CPU Card	Link		
			Setup Design info	Document	RX24T CPU Card User's Manual	Link		
				Document	RX24T CPU Card Schematic	Link		
				Document	RX24T CPU Card BOM LIST	Link		
				Document	RX24T CPU Card Pattern Diagram	Link		
			All In One Kit *Including CPU Board, Inverter Board, and Motor Including RX24T+RDC-IC CPU Card	Purchase info	Web page	Evaluation System for Stepping Motor with Resolver	Link	
				Setup Design info	Document	Evaluation System for Stepping Motor with Resolver User's Manual	Link	
	Document				Evaluation System for Stepping Motor with Resolver Inverter Board Schematic	Link		
	Document				Evaluation System for Stepping Motor with Resolver Inverter Board BOM LIST	Link		
	Document				Evaluation System for Stepping Motor with Resolver Inverter Board Pattern Drawing	Link		
	Document				Evaluation System for Stepping Motor with Resolver CPU Card Schematic	Link		
	Document				Evaluation System for Stepping Motor with Resolver CPU Card BOM LIST	Link		
	Document				Evaluation System for Stepping Motor with Resolver CPU Card Pattern Diagram	Link		
	Document				Resolver-to-Digital Converters User's Manual: Hardware	Link		
	Document				Guide to Selecting Peripheral Components for Use with the Resolver-to-Digital Converters	Link		
	Document				Usage Notes on Correcting Errors in Angles Detected by the Resolver-to-Digital Converter	Link		
	RX24U				Low-voltage Inverter Board	Purchase info	Web page	Evaluation System for BLDC Motor
Setup Design info						Document	Evaluation System for BLDC Motor User's Manual	Link
						Document	Evaluation System for BLDC Motor Schematic	Link
			Document	Evaluation System for BLDC Motor BOM LIST		Link		
			Document	Evaluation System for BLDC Motor Pattern Drawing		Link		
		Video	What is Evaluation System for BLDC Motor	Link				
		Video	Evaluation System for BLDC Motor [Set-up]	Link				
CPU Board		Purchase info	Web page	RX24U CPU Card	Link			
		Setup Design info	Document	RX24U CPU Card User's Manual	Link			
			Document	RX24U CPU Card Schematic	Link			
			Document	RX24U CPU Card BOM LIST	Link			
			Document	RX24U CPU Card Pattern Diagram	Link			

Evaluation Kit								
Family Name	Product Name	Board Type	Description	Content	Name	LINK		
RX	RX66T	Low-voltage Inverter Board	Purchase info	Web page	Evaluation System for BLDC Motor	Link		
			Setup Design info	Document	Evaluation System for BLDC Motor User's Manual	Link		
				Document	Evaluation System for BLDC Motor Schematic	Link		
				Document	Evaluation System for BLDC Motor BOM LIST	Link		
				Document	Evaluation System for BLDC Motor Pattern Drawing	Link		
				Video	What is Evaluation System for BLDC Motor	Link		
				Video	Evaluation System for BLDC Motor [Set-up]	Link		
		CPU Board	Purchase info	Web page	RX66T CPU Card	Link		
			Setup Design info	Document	RX66T CPU Card User's Manual	Link		
				Document	RX66T CPU Card Schematic	Link		
				Document	RX66T CPU Card BOM LIST	Link		
				Document	RX66T CPU Card Pattern Diagram	Link		
			RX72T	Low-voltage Inverter Board	Purchase info	Web page	Evaluation System for BLDC Motor	Link
					Setup Design info	Document	Evaluation System for BLDC Motor User's Manual	Link
	Document	Evaluation System for BLDC Motor Schematic				Link		
	Document	Evaluation System for BLDC Motor BOM LIST				Link		
	Document	Evaluation System for BLDC Motor Pattern Drawing				Link		
	Video	What is Evaluation System for BLDC Motor				Link		
	Video	Evaluation System for BLDC Motor [Set-up]				Link		
	3-Motor Control with 1 MCU	Video		Position Control of 3 Motors With a Single MCU	Link			
	4-Motor Control with 1 MCU	Video		Speed Control of 4 Motors With a Single MCU	Link			
	CPU Board	Purchase info		Web page	RX72T CPU Card	Link		
		Setup Design info		Document	RX72T CPU Card User's Manual	Link		
				Document	RX72T CPU Card Schematic	Link		
				Document	RX72T CPU Card BOM LIST	Link		
				Document	RX72T CPU Card Pattern Diagram	Link		
		RX72M	Low-voltage Inverter Board	Purchase info	Web page	Evaluation System for BLDC Motor	Link	
				Setup Design info	Document	Evaluation System for BLDC Motor User's Manual	Link	
	Document				Evaluation System for BLDC Motor Schematic	Link		
	Document				Evaluation System for BLDC Motor BOM LIST	Link		
	Document				Evaluation System for BLDC Motor Pattern Drawing	Link		
	Video				What is Evaluation System for BLDC Motor	Link		
	Video				Evaluation System for BLDC Motor [Set-up]	Link		
	CPU Board		Purchase info	Web page	RX72M CPU Card with RDC-1C	Link		
			Setup	Document	RX72M CPU Card with RDC-1C User's Manual	Link		
	All In One Kit *Including CPU Board, Inverter Board, and Motor Including RX24T+RDC-1C CPU Card Need to purchase RX72M+RDC-1C CPU Card separately		Purchase info	Web page	Evaluation System for Stepping Motor with Resolver	Link		
			Setup Design info	Document	Evaluation System for Stepping Motor with Resolver User's Manual	Link		
				Document	Evaluation System for Stepping Motor with Resolver Inverter Board Schematic	Link		
				Document	Evaluation System for Stepping Motor with Resolver Inverter Board BOM LIST	Link		
				Document	Evaluation System for Stepping Motor with Resolver Inverter Board Pattern Drawing	Link		
				Document	Resolver-to-Digital Converters User's Manual: Hardware	Link		
				Document	Guide to Selecting Peripheral Components for Use with the Resolver-to-Digital Converters	Link		
				Document	Usage Notes on Correcting Errors in Angles Detected by the Resolver-to-Digital Converter	Link		
	RX26T		All In One Kit *Including CPU Board, Inverter Board, and Motor	Purchase info	Web page	MCK-RX26T	Link	
				Setup Design info	Document	MCK-RX26T User's Manual	Link	
					Document	MCK-RX26T Quick Start Guide	Link	
					Document	MCK-RX26T Design Package	Link	
			Low-voltage Inverter Board	Purchase info	Web page	MCI-LV-1	Link	
		Setup Design info		Document	MCI-LV-1 User's Manual	Link		
				Document	MCI-LV-1 Design Package	Link		
		CPU Board	Purchase info	Web page	MCB-RX26T Type A	Link		
			Setup Design info	Document	MCB-RX26T Type A User's Manual	Link		
Document				MCB-RX26T Type A Design Package	Link			
Purchase info			Web page	MCB-RX26T Type B	Link			
Setup Design info			Document	MCB-RX26T Type B User's Manual	Link			
			Document	MCB-RX26T Type B Design Package	Link			
Purchase info			Web page	MCB-RX26T Type C	Link			
Setup Design info			Document	MCB-RX26T Type C User's Manual	Link			
		Document	MCB-RX26T Type C Design Package	Link				
Communication Board		Purchase info	Web page	MC-COM	Link			
	Setup Design info	Document	MC-COM User's Manual	Link				
		Document	MC-COM Design Package	Link				

Evaluation Kit						
Family Name	Product Name	Board Type	Description	Content	Name	LINK
RA	RA6T1	All In One Kit *Including CPU Board, Inverter Board, and Motor	Purchase info	Web page	Motor Control Evaluation System for RA Family - RA6T1 Group	Link
			Setup Design info	Document	Motor Control Evaluation System for RA Family User's Manual	Link
				Document	Motor Control Evaluation System for RA Family Quick Start Guide	Link
				Document	Motor Control Evaluation System for RA Family Design Package	Link
				Document	RSSK-RA6T1 Example Project Bundle	Link
				Video	RA6T1 Motor Control Evaluation System Introduction	Link
				Video	RA6T1 Motor Control Evaluation System Setup	Link
		Video	RA6T1 120MHz Arm@ Cortex@-M4, RA6 Group ASSP for Motor Control	Link		
		Low-voltage Inverter Board	Purchase info	Web page	Evaluation System for BLDC Motor	Link
			Setup Design info	Document	Evaluation System for BLDC Motor User's Manual	Link
				Document	Evaluation System for BLDC Motor Schematic	Link
				Document	Evaluation System for BLDC Motor BOM LIST	Link
				Document	Evaluation System for BLDC Motor Pattern Drawing	Link
				Video	What is Evaluation System for BLDC Motor	Link
		Video	Evaluation System for BLDC Motor [Set-up]	Link		
	CPU Board	Purchase info	Web page	RA6T1 CPU Card	Link	
		Setup Design info	Document	RA6T1 CPU Card User's Manual	Link	
			Document	RA6T1 CPU Card Quick Start Guide	Link	
			Document	RA6T1 CPU Card Schematic	Link	
	Document	RA6T1 CPU Card BOM LIST	Link			
	RA6T2	All In One Kit *Including CPU Board, Inverter Board, and Motor	Purchase info	Web page	MCK RA6T2	Link
			Setup Design info	Document	MCK RA6T2 User's Manual	Link
				Document	MCK RA6T2 Quick Start Guide	Link
				Document	MCK RA6T2 Example Project Bundle	Link
				Document	MCK RA6T2 Design Package	Link
				Video	Introduction of Flexible Motor Control Kit for RA6T2 (MCK-RA6T2)	Link
				Video	Setup Procedure of Flexible Motor Control Kit for RA6T2 (MCK-RA6T2)	Link
				Video	RA6T2 Evaluation Environment for BLDC Motor with Inductive Position Sensor IC	Link
			Video	Embedded AI TinyML-based Sensorless Predictive Maintenance for Electric Motor Systems	Link	
			Low-voltage Inverter Board	Purchase info	Web page	MCI-LV-1
		Setup Design info		Document	MCI-LV-1 User's Manual	Link
				Document	MCI-LV-1 Design Package	Link
		High-voltage Inverter Board	Purchase info	Web page	MCI-HV-1	Link
			Setup Design info	Document	MCI-HV-1 User's Manual	Link
				Document	MCI-HV-1 Design Package	Link
				Video	MCI-HV-1 Renesas Flexible Motor Control Inverter Board for 100V/200V Three-Phase BLDC/Induction Motor	Link
		High-voltage Inverter Board	Purchase info	Web page	MCI-HV-2-1PH	Link
			Setup Design info	Document	MCI-HV-2-1PH User's Manual	Link
				Document	IM V/f Control by High-Voltage Inverter	Link
				Document	MCI-HV-2-1PH Design Package	Link
		High-voltage Inverter Board	Purchase info	Web page	MCI-HV-2-3PH	Link
			Setup Design info	Document	MCI-HV-2-3PH User's Manual	Link
				Document	IM V/f Control by High-Voltage Inverter	Link
				Document	MCI-HV-2-3PH Design Package	Link
				Video	MCI-HV-2-3PH Overview: Inverter Board for High-Voltage Industrial Motor Control	Link
		CPU Board	Purchase info	Web page	MCB-RA6T2	Link
			Setup Design info	Document	MCB-RA6T2 User's Manual	Link
Document				MCB-RA6T2 Design Package	Link	
Video				Renesas' RA6T2 Group MCUs	Link	
Communication Board		Purchase info	Web page	MC-COM	Link	
		Setup Design info	Document	MC-COM User's Manual	Link	
			Document	MC-COM Design Package	Link	

Evaluation Kit							
Family Name	Product Name	Board Type	Description	Content	Name	LINK	
RA	RA6T3	All In One Kit *Including CPU Board, Inverter Board, and Motor	Purchase info	Web page	MCK-RA6T3	Link	
			Setup Design info	Document	MCK-RA6T3 User's Manual	Link	
				Document	MCK-RA6T3 Quick Start Guide	Link	
				Document	MCK-RA6T3 Example Project Bundle	Link	
				Document	MCK-RA6T3 Design Package	Link	
				Video	RA6T3 200MHz Arm@ Cortex@-M33 Motor Control Microcontroller	Link	
		Low-voltage Inverter Board	Purchase info	Web page	MCI-LV-1	Link	
			Setup Design info	Document	MCI-LV-1 User's Manual	Link	
				Document	MCI-LV-1 Design Package	Link	
		CPU Board	Purchase info	Web page	MCB-RA6T3	Link	
			Setup Design info	Document	MCB-RA6T3 User's Manual	Link	
				Document	MCB-RA6T3 Design Package	Link	
		Communication Board	Purchase info	Web page	MC-COM	Link	
			Setup Design info	Document	MC-COM User's Manual	Link	
				Document	MC-COM Design Package	Link	
		RA4T1	All In One Kit *Including CPU Board, Inverter Board, and Motor	Purchase info	Web page	MCK-RA4T1	Link
				Setup Design info	Document	MCK-RA4T1 User's Manual	Link
					Document	MCK-RA4T1 Quick Start Guide	Link
	Document				MCK-RA4T1 Example Project Bundle	Link	
	Document				MCK-RA4T1 Design Package	Link	
	Video				RA4T1 100MHz Arm@ Cortex@-M33 Motor Control Microcontroller	Link	
	Low-voltage Inverter Board		Purchase info	Web page	MCI-LV-1	Link	
			Setup Design info	Document	MCI-LV-1 User's Manual	Link	
				Document	MCI-LV-1 Design Package	Link	
	CPU Board		Purchase info	Web page	MCB-RA4T1	Link	
			Setup Design info	Document	MCB-RA4T1 User's Manual	Link	
				Document	MCB-RA4T1 Design Package	Link	
	Communication Board		Purchase info	Web page	MC-COM	Link	
			Setup Design info	Document	MC-COM User's Manual	Link	
				Document	MC-COM Design Package	Link	
	RA2T1		All In One Kit *Including CPU Board, Inverter Board, and Motor	Purchase info	Web page	MCK-RA2T1	Link
				Setup Design info	Document	MCK-RA2T1 User's Manual	Link
					Document	MCK-RA2T1 Quick Start Guide	Link
		Document			MCK-RA2T1 Design Package	Link	
		Document			MCK-RA2T1 Design Package	Link	
		Document			MCK-RA2T1 Design Package	Link	
		Low-voltage Inverter Board	Purchase info	Web page	MCI-LV-1	Link	
			Setup Design info	Document	MCI-LV-1 User's Manual	Link	
				Document	MCI-LV-1 Design Package	Link	
		CPU Board	Purchase info	Web page	MCB-RA2T1	Link	
			Setup Design info	Document	MCB-RA2T1 User's Manual	Link	
				Document	MCB-RA2T1 Design Package	Link	
		Communication Board	Purchase info	Web page	MC-COM	Link	
			Setup Design info	Document	MC-COM User's Manual	Link	
				Document	MC-COM Design Package	Link	
		RA8T1	All In One Kit *Including CPU Board, Inverter Board, and Motor	Purchase info	Web page	MCK-RA8T1	Link
				Setup Design info	Document	MCK-RA8T1 User's Manual	Link
					Document	MCK-RA8T1 Quick Start Guide	Link
Document	MCK-RA8T1 Quick Design Guide				Link		
Document	MCK-RA8T1 Example Project Bundle				Link		
Document	MCK-RA8T1 Design Package				Link		
Low-voltage Inverter Board	Purchase info		Web page	MCI-LV-1	Link		
	Setup Design info		Document	MCI-LV-1 User's Manual	Link		
			Document	MCI-LV-1 Design Package	Link		
CPU Board	Purchase info		Web page	MCB-RA8T1	Link		
	Setup Design info		Document	MCB-RA8T1 User's Manual	Link		
			Document	MCB-RA8T1 Design Package	Link		
Communication Board	Purchase info		Web page	MC-COM	Link		
	Setup Design info		Document	MC-COM User's Manual	Link		
			Document	MC-COM Design Package	Link		

Evaluation Kit								
Family Name	Product Name	Board Type	Description	Content	Name	LINK		
RA	RA8T2	All In One Kit *Including CPU Board, Inverter Board, and Motor	入手	Web page	MCK-RA8T2	Link		
			Setup Design info	Document	MCK-RA8T2 User's Manual	Link		
				Document	MCK-RA8T2 Quick Start Guide	Link		
				Document	MCK-RA8T2 Example Project Bundle	Link		
				Document	Quick Start Guide: MCK-RA8T2 EtherCAT	Link		
				Document	MCK-RA8T2 Design Package	Link		
		Low-voltage Inverter Board	Purchase info	Web page	MCI-LV-1	Link		
			Setup Design info	Document	MCI-LV-1 User's Manual	Link		
				Document	MCI-LV-1 Design Package	Link		
		CPU Board	Purchase info	Web page	MCB-RA8T2	Link		
			Setup Design info	Document	MCB-RA8T2 User's Manual	Link		
				Document	MCB-RA8T2 Design Package	Link		
		Communication Board	Purchase info	Web page	MC-COM	Link		
			Setup Design info	Document	MC-COM User's Manual	Link		
				Document	MC-COM Design Package	Link		
		RZ	RZ/T2M	All In One Kit (DC24V ver.) *Including CPU Board, Inverter Board, and Motor	Purchase info	Web page	RZ/T2M Motor Solution Kit (DC 24V ver.)	Link
Setup Design info	Document				RZ/T2M Motor Solution Kit Hardware Manual	Link		
	Document				RZ/T2M Motor Solution Kit Startup Guide	Link		
	Video				Introduction of RZ/T2M Motor Solution Kit	Link		
	Video				Writing Non FuSa Firmware with CiA402 for RZT2M motor solution kit	Link		
	Video				Writing FuSa Firmware for RZT2M motor solution kit	Link		
	Video				Writing FuSa Firmware with CiA402 for RZT2M motor solution kit	Link		
	Video				Writing FuSa Firmware for RZT2M motor solution kit	Link		
	Video				Prepare for TwinCAT(CiA402) with RZ/T2M Motor Solution Kit	Link		
	Video				FSoE Communication with RZ/T2M Motor Solution Kit	Link		
	Video				CiA402 with RZ/T2M Motor Solution Kit using FuSa FW	Link		
	Video				CiA402 with RZ/T2M Motor Solution Kit using Non FuSa FW	Link		
	Video				Motion Utility with RZ/T2M Motor Solution Kit	Link		
	Video				Safe torque off Demonstration with RZ/T2M Motor Solution Kit	Link		
All In One Kit (AC220V ver.) *Including CPU Board, Inverter Board, and Motor	Purchase info				Web page	RZ/T2M,RZ/T2L,RZ/N2L Motor Solution Kit (AC 220V ver.)	Link	
	Setup Design info				Document	Motor Solution Kit Board Manual (for RZ/T2M, RZ/N2L)	Link	
					Document	Motor Solution Kit Startup Guide (for Motion Control Utility)	Link	
					Document	Motor Solution Kit Startup Guide (for EtherCAT)	Link	
			Document	Motor Solution Kit Inverter Board Manual	Link			
			Document	Motor Solution Kit Firmware Manual	Link			
Document	Motor Solution Kit Design Package		Link					
RZ/T2L	All In One Kit *Including CPU Board, Inverter Board, and Motor		Purchase info	Web page	RZ/T2M,RZ/T2L,RZ/N2L Motor Solution Kit (AC 220V ver.)	Link		
			Setup Design info	Web page	Motor Solution Kit Board Manual (for RZ/T2L)	Link		
				Document	Motor Solution Kit Startup Guide (for Motion Control Utility)	Link		
				Document	Motor Solution Kit Startup Guide (for EtherCAT)	Link		
				Document	Motor Solution Kit Inverter Board Manual	Link		
				Document	Motor Solution Kit Firmware Manual	Link		
			Document	Motor Solution Kit Design Package	Link			
			RZ/T2H	Low-voltage Inverter Board	Purchase info	Web page	RZ/T Series Inverter Board Kit	Link
					Setup Design info	Document	RZ/T Series Inverter Board Kit User's Manual	Link
						Document	INVB-LV-RZT-1 Design Package	Link
CPU Board	Purchase info				Web page	RZ/T2H Evaluation Board Kit	Link	
	Setup Design info				Document	RZ/T2H Evaluation Board Kit User's Manual	Link	
				Document	RZ/T2H Evaluation Board Kit How to use Mbed TLS	Link		
		Document		RZ/T2H Evaluation Board Kit Startup Guide (for RZ/T2H Motion Control Utility)	Link			
		Document		RZ/T2H Evaluation Board Kit Quick Start Guide: Firmware Update	Link			
Document		RZ/T2H Evaluation Board Kit Device Setup Guide for Flash boot		Link				
Document		RZ/T2H Evaluation Board Kit Quick Start Guide		Link				
Document		RZ/T2H Evaluation Board Kit Design Package	Link					
Video	RZ/T2H 9-axis motor control demo	Link						
Video	RZ/T2H - OpenAMP Overview and Core-to-Core Communication	Link						
BUS Board Optional Board for Inverter Board expansion	Purchase info	Web page	Bus Board for RZ/T2H	Link				
	Setup Design info	Document	Bus Board for RZ/T2H User's Manual	Link				
		Document	BUSB-RZT2H-B Design Package	Link				

Sample Code

RL78 Family

Motor Control Sample Code	RL78/G24
Sensorless 120-deg conducting control	✓
Sensorless vector control	✓

RX Family

Motor Control Sample Code	RX13T	RX23T	RX24T	RX24U	RX66T	RX72T	RX72M	RX26T
120-deg conducting control with hall sensor	✓	✓	✓	✓	-	-	-	-
Sensorless 120-deg conducting control	✓	✓	✓	✓	-	-	-	-
1-shunt sensorless vector control	-	-	✓	✓	✓	✓	✓	✓
Sensorless vector control	✓	✓	✓	✓	✓	✓	✓	✓
Sensorless vector control - 2-motor drive	-	-	-	-	✓	-	✓	✓
Encoder vector control - 3-motor drive	-	-	-	-	-	✓	-	-
Sensorless vector control - 4-motor drive	-	-	-	-	-	✓	-	-
Hall sensor vector control	-	-	-	-	-	-	-	✓
Encoder vector control	✓	✓	✓	✓	✓	✓	✓	✓
Vector control for 2-phase stepping motor with resolver	-	-	✓	-	✓	✓	✓	-
Magnetic sensor vector control	✓	✓	✓	✓	✓	✓	✓	-
Inductive sensor vector control	✓	✓	✓	✓	✓	✓	✓	-
Sensorless Vector Control for IPMSM over the Whole Speed Range	-	-	-	-	✓	-	-	✓
Resolver control driver	-	✓	✓	-	✓	✓	✓	-
Servo control (For RMW)*1	-	-	✓	-	✓	✓	✓	-
V/f control	-	-	-	-	-	-	-	✓

*1: Inertia estimation and origin return function added to the position control software using RX MCUs

Sample Code

RA Family

Motor Control Sample Code	RA6T1	RA6T2 MCI-LV-1	RA6T2 MCI-HV-1	RA6T2 MCI-HV-2	RA6T3	RA4T1	RA2T1	RA8T1	RA8T2
120-deg conducting control with hall sensor	✓	✓	-	-	✓	✓	-	✓	✓
Sensorless 120-deg conducting control	✓	✓	-	-	✓	✓	-	✓	✓
1-shunt sensorless vector control	✓	✓	-	-	✓	✓	✓	✓	✓
Sensorless vector control	✓	✓	✓	-	✓	✓	✓	✓	✓
Sensorless vector control - 2-motor drive	✓	✓	-	-	-	-	-	✓	✓
Hall sensor vector control	-	✓	-	-	✓	✓	-	✓	✓
Encoder vector control	✓	✓	-	-	✓	✓	-	✓	✓
Inductive sensor vector control	-	✓	-	-	✓	✓	-	✓	✓
Sensorless Vector Control for IPMSM over the Whole Speed Range	-	-	✓	-	-	-	-	-	-
Servo control (For RMW)*1	✓	✓	-	-	-	-	-	-	-
V/f control	-	-	-	✓	-	-	-	-	-

*1: Inertia estimation and origin return function added to the position control software using RA MCUs

RZ Family

Motor Control Sample Code	RZ/T2M (DC24V ver.)	RZ/T2M (AC220V ver.)	RZ/T2L	RZ/N2L	RZ/T2H
Motor Control Sample Code	✓	✓	✓	✓	✓

Tools & Software						
Family	Environment/Tool Type	Description	Content	Name	LINK	
Common	Integrated Development Environment	Free Download	Web page	e2 studio	Link	
		Setup	Video		e2 studio Quick Start Guide - Install e2 studio and CC-RL Compiler on Linux	Link
			Video		Renesas Emulator Selection Guide for RX	Link
			Video		e2 studio Quick Start Guide - Install e2 studio and CC-RX Compiler on Linux	Link
			Video		e2 studio Quick Start Guide - Installation for RA Family on macOS	Link
			Video		e2 studio on Linux - Install e2 studio and GNU Arm Embedded for RA	Link
			Video		e2 studio Quick Start Guide - FSP for RZ on Separate Installer	Link
			Video		e2 studio Quick Start Guide - FSP for RZ for Platform Installer	Link
			Video		e2 studio on Linux Quick Start Guide - Install e2 studio and ARM GNU for RZ Family	Link
			Video		Reality AI / e2 studio Integration Overview Video	Link
			Video		Introducing the Installer with Simplified Operation from e2 studio 2023-07	Link
			Video		e2 studio Tips - How to change the device in the project	Link
			Video		e2 studio Tips - How to import CS+ for CA, CX Project	Link
			Video		e2 studio Tips - How to import CS+ for CC Project	Link
			Video		e2 studio Tips - How to Save the Build Log and Set the Number of Lines to Display	Link
			Video		e2 studio Tips - How to Manage Source Code Versions (Using EGit)	Link
		Video		e2 studio Tips - GUI Window to Look At if You Don't Know How to Operate It	Link	
	Motor Tuning	Free Download	Web page		Renesas Motor Workbench	Link
		Setup	Document		Renesas Motor Workbench User's Manual	Link
			Document		Renesas Motor Workbench Quick Start Guide	Link
			Document		Renesas Motor Workbench DLL for Communication Function Manual	Link
			Video		(1) Renesas Motor Workbench [Set-up]	Link
			Video		(4) Renesas Motor Workbench Analyzer [Basic]	Link
			Video		(5) Renesas Motor Workbench Tuner [Basic]	Link
			Video		(6) Renesas Motor Workbench Analyzer+Tuner [Application]	Link
			Video		(7) Renesas Motor Workbench Analyzer Math function	Link
			Video		(8) Renesas Motor Workbench Analyzer Status Indicator	Link
			Video		(9) Renesas Motor Workbench Analyzer Increase the number of waveform display candidate channels	Link
			Video		(10) Renesas Motor Workbench Analyzer Alias Name	Link
			Video		(11) Renesas Motor Workbench Analyzer USER BUTTON	Link
			Video		(12) Renesas Motor Workbench Analyzer COMMANDER	Link
			Video		(13) Renesas Motor Workbench Analyzer ONE SHOT	Link
			Video		(14) Renesas Motor Workbench Analyzer Navigation	Link
Video		(15) Renesas Motor Workbench Analyzer Parameter Output	Link			
Video		(16) Renesas Motor Workbench Analyzer Variable Meaning	Link			
Video		(17) Renesas Motor Workbench Servo Function	Link			
Video		(18) Renesas Motor Workbench Easy GUI	Link			

Tools & Software							
Family	Environment/Tool Type	Description	Content	Name	LINK		
RL78	Code Generation Support Tool	Free Download	Web page	RL78 Smart Configurator	Link		
			Document	RL78 Smart Configurator User's Manual: RL78 API Reference	Link		
		Setup	Document	RL78 Smart Configurator User's Guide: CS+	Link		
			Document	RL78 Smart Configurator User's Guide: e2 studio	Link		
			Document	RL78 Smart Configurator User's Guide: IAREW	Link		
			Document	RL78 Smart Configurator Project Porting Procedure for CS and e2 studio	Link		
			Document	Porting projects produced with the Code Generator to projects for use with the Smart Configurator	Link		
			Video	Introduction of Smart Configurator for RL78 Family	Link		
			Video	e2 studio Quick Start Guide (2/3) - Project Generation for RL78	Link		
			Video	e2 studio Quick Start Guide (3/3) - Build and Debug for RL78	Link		
			Video	How to Create a Smart Configurator Project in e2 studio	Link		
			Video	How to Create a SMART Communication Project Using Smart Configurator in e2 studio	Link		
			Video	How to Use Flexible Application Accelerator (FAA) in e2 studio	Link		
			Video	How to Use Symbolic Name with Smart Configurator	Link		
			Video	Smart Configurator Feature - How to generate HEX values for Code Generator drivers	Link		
			Video	Smart Configurator Feature - Easy Transfer of Component Settings from One Project to Another	Link		
			Video	Using Smart Configurator with IAR Embedded Workbench for RL78 (2/2) - Creating an EWB Project for Smart Configurator	Link		
			Video	Easy Coding in e2 studio With the Smart Configurator Developer Assistance Feature	Link		
			Video	SNOOZE Mode Sequencer (SMS) Tutorial - Import SMS LED Blinking Dimming Control Project	Link		
			Video	How To Migrate From Code Generator Project to Smart Configurator Project	Link		
	Video	How to Use the User Code Protection Feature in Smart Configurator	Link				
	Video	How To Use Smart Configurator - Walkthrough the Settings of Clocks and Components	Link				
	Video	How to Create a Blinky Project with Smart Configurator on e2 studio	Link				
	Video	How to Use CAN/LIN with Smart Configurator on e2 studio	Link				
	Video	How to Create a LIN Project with Smart Configurator on e2 studio	Link				
	RX	HAL Driver	Free Download	Web page	FIT	Link	
				Document	FIT User's Manual	Link	
Setup			Document	FIT Board Support Package Module	Link		
			Document	Guide for Porting the FIT Project to the Other RX Family	Link		
Development Support Tool		Free Download	Web page	Manually Importing Firmware Integration Technology Modules	Link		
		Code Generation Support Tool	Free Download	Web page	RX Smart Configurator	Link	
Document	RX Smart Configurator User's Guide: CS+			Link			
Setup	Document		RX Smart Configurator User's Guide: e2 studio	Link			
	Document		RX Smart Configurator User's Guide: IAREW	Link			
	Development Support Tool		Free Download	Web page	QE for Motor (for RX26T only)	Link	
				Document	QE for Motor Application Development Guide	Link	
Setup		Video	Motor Solution - QE for Motor Provides a Seamless Environment for More Efficient Development	Link			
		Video	QE for Motor Tutorial: Importing Sample Project	Link			
		Video	QE for Motor Tutorial: Motor Control Software Configuration for RX Family	Link			
		Video	QE for Motor Tutorial: Motor Control Software Configuration for RX Family	Link			
RA	HAL Driver	Free Download	Web page	FSP	Link		
			Document	FSP User's Manual	Link		
		Setup	Document	FSP User's Manual (Web Version - HTML)	Link		
			Video	Renesas RA Family Partner Ecosystem Overview	Link		
			Video	Introducing the Renesas RA Family of 32-Bit Microcontrollers	Link		
			Video	Evaluation System for BLDC Motor Pattern Drawing	Link		
			Video	Generating Your First RA FSP Project	Link		
			Video	Generating a Simple RA FSP Project with Keil MDK	Link		
			Video	e2 studio Tips - How to Import Example Project in e2 studio for RA	Link		
			Video	Tips - How to Import Example Project in IAR EWARM for RA	Link		
			Video	Tips - How to import example project in Arm Keil MDK for RA	Link		
			Code Generation Support Tool	Free Download	Web page	RA Smart Configurator	Link
					Video	Generating an RA Secure Project for IAR Embedded Workbench	Link
	Setup	Video		Generating an RA Non-secure Project for IAR Embedded Workbench	Link		
		Video		Generating a Simple RA FSP Project with Keil MDK	Link		
		Video		Tips - How to Import Example Project in IAR EWARM for RA	Link		
		Video		Tips - How to import example project in Arm Keil MDK for RA	Link		
		Development Support Tool		Free Download	Web page	QE for Motor (for RA4T1, RA6T1, RA6T2, RA6T3, RA8T1)	Link
					Document	QE for Motor Application Development Guide	Link
	Setup			Video	Motor Solution - QE for Motor Provides a Seamless Environment for More Efficient Development	Link	
				Video	QE for Motor Tutorial: Importing Sample Project	Link	
				Video	QE for Motor Tutorial: Motor Control Software Configuration for RA Family	Link	
				Video	QE for Motor Tutorial: Motor Control Software Configuration for RA Family	Link	
	RZ	HAL Driver		Free Download	Web page	FSP	Link
		Code Generation Support Tool		Free Download	Web page	RZ Smart Configurator	Link
			Document		RZ Smart Configurator User's Guide: e2 studio	Link	
			Setup	Document	RZ Smart Configurator Application Examples: CMT, A/D, SCI, DMA, USB	Link	
Document				RZ Smart Configurator: Using Board Description File (bdf)	Link		
Video				Introduction of Smart Configurator for RZ Family	Link		
Video				Introduction of Smart Configurator for RZ Family	Link		

Reference Design			
Description	Content	Name	LINK
Resolver Solution	Web page	Resolver Motor Control Solutions for Consumer and Industrial Applications	Link
	Document	Guide to Selecting Peripheral Components for Use with the Resolver-to-Digital Converters	Link
	Document	Usage Notes on Correcting Errors in Angles Detected by the Resolver-to-Digital Converter	Link
	Video	New-Born Resolver/Digital Converter - High Precision Positioning Solution	Link
	Video	PTZ Security Camera - Renesas resolver solution demonstration	Link
	Video	Demonstration of thrust type return to origin	Link
Induction Motor Solution	Web page	Three-Phase Induction Motor Solution	Link
Magnetic Encoder Solution	Web page	Motor Solution Using a Magnetic Encoder	Link
BLDC Motor Solution	Web page	Brushless DC Motor Solution - Permanent Magnet Synchronous Motor	Link
3-Level Inverter	Web page	Evaluation System for BLDC Motor Pattern Drawing	Link
Whole Speed Range Sensorless	Web page	Whole Speed Range Sensorless Motor Solution	Link
Dual Motor Control with Interleaved PFC for Air Conditioner Outdoor Unit	Web page	AIR-CON-ODU-REF	Link
	Document	MCI-HV-AC User's Manual	Link
	Document	Dual Motor Control with Interleaved PFC for Air Conditioner Outdoor Unit Reference Design	Link
	Document	Air Conditioner Outdoor Unit Design Files	Link
2-Axis Robot Arm Reference Design	Web page	2-AXIS-ROBOT-ARM-REF	Link
	Document	Reference Guide for a 2-Axis Robot Arm with 2-Phase Stepping Motors Incorporating Resolvers User's Manual	Link
	Sample Soft	Reference Guide for a 2-Axis Robot Arm with 2-Phase Stepping Motors Incorporating Resolvers	Link
	Document	2-Axis Robot Arm with 2-Phase Stepping Motors Incorporating Resolvers Design Files	Link
	Video	Stepping Motor X Servo Control	Link
	Video	Position Control with Resolver Solution	Link
Multiple Motor Control Reference Design	Web page	MULTI-MTR-CTRL-REFZ	Link
	Document	Vector Control for Permanent Magnet Synchronous Motor with Encoder (Implementation) (Control over Three Motors) RX72T, for "Evaluation System for BLDC Motor"	Link
	Sample Soft	RX72T Vector Control for Permanent Magnet Synchronous Motor with Encoder (Implementation) (Control over Three Motors) for "Evaluation System for BLDC Motor"	Link
	Document	Sensorless Vector Control for Permanent Magnet Synchronous Motor (Implementation) (Control over Four Motors) RX72T, for "Evaluation System for BLDC Motor"	Link
	Sample Soft	RX72T Sensorless Vector Control for Permanent Magnet Synchronous Motor (Implementation) (Control over Four Motors) for "Evaluation System for BLDC Motor"	Link
	Document	Multiple Motor Control Design Files	Link
	Video	Position Control of 3 Motors With a Single MCU	Link
	Video	Speed Control of 4 Motors With a Single MCU	Link
	Blog	Controlling multiple motors with a single MCU! Example of 4-motor control with RX72T	Link
RZ/T2H 9-Axis Motor Control Reference Design	Web page	RZT2H-9-AXIS-MOTOR	Link
	Document	RZ/T2H Startup Manual (RZ/T2H Motion Control Utility)	Link
	Document	RZ/T2H Program Writing Guide	Link
	Document	RZ/T2H Vector Control for Permanent Magnetic Synchronous Motor with Encoder (9-axes) - Absolute Encode	Link
	Document	RZ/T2H Evaluation Board Kit Design Files	Link
	Document	BUSB-RZT2H-B Design Files	Link
	Document	INVB-LV-RZT-1 Design Files	Link
	Video	RZ/T2H 9-Axis Motor Control Demo	Link
Application Examples			
Description	Content	Name	LINK
Application Examples	Web page	Application Examples (Motor Drives & Robotics Application)	Link