
1. Introduction

Since its debut 20 years ago, the FA-M3/e-RT3 has released new, innovative, advanced-function products every year. Today, some electronic parts used in older products have become unavailable, and discontinuation of production or more electronic parts is expected due to mandatory compliance with various standards and directives.

In our efforts to ensure continued sales and reliable service to our customers, we have in the past stocked many discontinued parts, but a depleting inventory is posing difficulties for future production system maintenance, quality assurance and repair service. We have thus made the difficult decision to end the sale of some old FA-M3/e-RT3 products.

We advise customers to plan for alternative designs and migration. Thank you for your understanding and support.

■ Precautions

- Information in this document is current as of November 2017.
- In principle, product service & support is available for five years after the end of sale but might be shorter for some products.
- Product service and support might end prematurely due to discontinuation of production of parts or other unforeseen circumstances, in which case, replacement products or alternative solutions will be offered.
- When considering product replacement and migration, consult Yokogawa's sales representatives for advice on possible functional or performance compatibility issues.

2. List of Discontinued (End-of-Sale) Products

■ Hardware

Table 2.1 List of End-of-Sale Hardware Products

Item	Model name	Replacement product		End-of-Sale date	End-of-Support date
		Model name	Precautions		
Power supply	F3PU01-0N	F3PU10-0S	Supports AC100-240V. Consolidated as F3PU10-0S. Terminal screws are changed from M3.5→M4.	2000/12/31	End of support
	F3PU10-0N	F3PU10-0S	Terminal screws are changed from M3.5→M4.	2007/9/30	End of support
	F3PU20-0N	F3PU20-0S		2007/9/30	End of support
	F3PU30-0N	F3PU30-0S		2007/9/30	End of support
	F3PU36-0N	F3PU36-0S		2007/9/30	End of support
Sequence CPU	F3SP20-0N	F3SP22-0S ^{**1}	New and improved functionality, such as program size and processing speed	2000/12/31	End of support
	F3SP21-0N	F3SP22-0S ^{**1}		2012/7/27	End of support
	F3SP25-2N	F3SP71-4S ^{**1}		2007/9/30	End of support
	F3SP28-3N	F3SP71-4S ^{**1}		2007/9/30	End of support
	F3SP30-0N	F3SP71-4S ^{**1}		2000/12/31	End of support
	F3SP35-5N	F3SP76-7S ^{**1}		2007/9/30	End of support
	F3SP38-6N	F3SP76-7S ^{**1}		2007/9/30	End of support
	F3SP53-4H	F3SP71-4S ^{**1}		2007/9/30	End of support
	F3SP58-6H	F3SP76-7S ^{**1}		2007/9/30	End of support
	F3FP36-3N	-	No replacement product is available.	2007/9/30	End of support
	F3SP28-3S	F3SP71-4S ^{**1}	New and improved functions, such as program size and processing speed; Built-in network function; Software-compatible.	2015/1/31	2020/1/31
	F3SP38-6S	F3SP76-7S ^{**1}		2015/1/31	2020/1/31
	F3SP53-4S	F3SP71-4S ^{**1}		2015/1/31	2020/1/31
	F3SP58-6S	F3SP76-7S ^{**1}		2015/1/31	2020/1/31
	F3SP59-7S	F3SP76-7S ^{**1}		2015/1/31	2020/1/31
	F3SP71-4N	F3SP71-4S		UL/CE-compliant. No more restrictions concerning multi-CPU and FA Link H module. Software-compatible.	2013/1/31
	F3SP76-7N	F3SP76-7S	New and improved functions, such as program size and processing speed. No more SIO (RS-232C) port. Upgrade from USB101→USB2.0. Software-compatible.	2013/1/31	2018/1/31
F3SP66-4S	F3SP71-4S	2019/3/31		2024/3/31	
F3SP67-6S	F3SP76-7S	2019/3/31		2024/3/31	
BASIC CPU	F3BP20-0N	-	No replacement product is available. Migration to ladder language (F3SP □□) script function or C language (F3 RP □□) is required.	2017/3/31	2022/3/31
	F3BP30-0N	-		2017/3/31	2022/3/31

Item	Model name	Replacement product		End-of-Sale date	End-of-Support date
		Model name	Precautions		
ROM pack	RK10-0N	-	No replacement product is available.	2017/3/31	2022/3/31
	RK30-0N	-		2017/3/31	2022/3/31
	RK50-0N	-		2007/9/30	End of support
	RK53-0N	-		2017/3/31	2022/3/31
	RK93-0N	-		2017/3/31	2022/3/31
Memory card	F3EM01-0N	-	Memory card functions can be substituted by the SD card of the sequence CPU module (F3SP7□), but will require hardware/program redesign. Replace with a maintenance item.	2014/3/31	2019/3/31
Input	F3XD08-6N	F3XD08-6F	Input response time is selectable.	2007/9/30	End of support
	F3XD16-3N	F3XD16-3F		2007/9/30	End of support
	F3XD16-4N	F3XD16-4F		2007/9/30	End of support
	F3XD32-3N	F3XD32-3F		2007/9/30	End of support
	F3XD32-4N	F3XD32-4F		2007/9/30	End of support
	F3XD32-5N	F3XD32-5F		2007/9/30	End of support
	F3XD64-3N	F3XD64-3F		2007/9/30	End of support
	F3XD64-4N	F3XD64-4F		2007/9/30	End of support
Output	F3YD32-1A	F3YD32-1P	Output short-circuit protector is added.	2007/9/30	End of support
	F3YD32-1B	F3YD32-1R		2007/9/30	End of support
	F3YD64-1A	F3YD64-1P		2007/9/30	End of support
	F3YD64-1F	F3YD64-1P		2007/9/30	End of support
Input/output	F3WD64-3F	F3WD64-3P	Input response time is selectable. Output short-circuit protector is added.	2009/9/30	End of support
	F3WD64-3N			2007/9/30	End of support
	F3WD64-4F	F3WD64-4P		2009/9/30	End of support
	F3WD64-4N			2007/9/30	End of support
Analog input	F3AD04-0N	F3AD04-5R	Upward compatible but wiring and terminal block cannot be reused. Different external dimensions (depth); terminal block mounting position is in front. Filter/scaling and other settings are common.	2014/3/31	2019/3/31
	F3AD04-0R			2014/3/31	2019/3/31
	F3AD04-0V	F3AD04-5V		2014/3/31	2019/3/31
	F3AD08-1N	F3AD08-5R	Upward compatible; wiring and terminal block can be reused. Different external dimensions (depth); terminal block mounting position is in front. Filter/scaling and other settings are common.	2014/3/31	2019/3/31
	F3AD08-1R			2014/3/31	2019/3/31
	F3AD08-1V	F3AD08-5V		2014/3/31	2019/3/31
	F3AD08-4V	F3AD08-4W		2014/3/31	2019/3/31

Item	Model name	Replacement product		End-of-Sale date	End-of-Support date
		Model name	Precautions		
High-speed data acquisition	F3HA08-0N	F3HA06-1R F3HA12-1R	No or minor modification of application programs needed after replacement if module is used as a high-speed AD conversion module, which refers only to constantly updated data without using its data acquisition function. Application is incompatible and needs modification if the data acquisition function or acquisition-related filter function etc. is used.	2015/3/31	2020/3/31
Analog output	F3DA02-0N	F3DA04-6R (/DCR)	Terminal arrangement is changed (common terminals independent of output type). Output type is set by software with default range of -10 to 10 V. F3DA04-6R/DCR with default output range of 4 to 20 mA is available for maintenance. Output behavior at startup differs with high-impedance output until setting value is written.	2013/3/29	2018/3/31
	F3DA04-1N			2013/3/29	2018/3/31
	F3DA08-5N	F3DA08-5R	Output behavior at startup differs with high-impedance output until setting value is written.	2013/3/29	2018/3/31
PID/Temperature control	F3CU04-0N	F3CU04-0S	If saving is required when the SP (Set Point) is rewritten, the required processing must be added/modified in the application program. Parameter address and basic logic remain the same.	2008/2/26	End of support
	F3CU04-1N	F3CU04-1S		2008/2/26	End of support
Temperature monitoring and control	F3CR04-0N	F3CU04-0S	Software modification is needed.	2005/11/30	End of support
	F3CR04-1N	F3CU04-1S		2005/11/30	End of support
	F3CT04-0N	F3CU04-0S		2005/11/30	End of support
	F3CT04-1N	F3CU04-1S		2005/11/30	End of support
PID control	F3CV04-1N	F3CU04-1S	Software modification is needed.	2005/11/30	End of support
Personal computer link	F3LC11-1N	F3LC11-1F	Upward-compatible but communications setup differs. Software modification is needed if using event transmission.	2006/6/30	End of support
	F3LC11-2N	F3LC11-2F		2006/6/30	End of support
Multi-link	F3LC21-1N	-	No replacement product is available. Support with maintenance items.	2014/3/31	2019/3/31
Ethernet interface	F3LE01-5T	F3LE01-1T	Software compatible but has no AUI port. Connector location and appearance differ. 100 Mps is supported.	2009/5/19	End of support
	F3LE01-0T	F3LE01-1T		2015/3/31	End of support
	F3LE11-0T	F3LE11-1T	Upward compatible but connector location and appearance differ.	2015/3/31	End of support
	F3LE12-0T	F3LE12-1T		2015/3/31	End of support
FL-net interface	F3LX01-0N	F3LX02-2N	Software compatible but has no AUI port. Connector location and appearance differ. Switching from FL-net(OPCN-1) compatible equipment to FL-net(OPCN-2) Ver.2.00 compatible equipment is necessary.	2008/9/30	End of support
	F3LX02-1N	F3LX02-2N	Upward compatible product. 10/100Mbps,10BASE-T/100BASE-TX FL-net (OPCN-2) Ver.2.00 No more AUI connector, external power supply and SHIELD terminal.	2017/4/28	2018/3/31
ASi master	F3LA01-0N	-	No replacement product is available. Replace with a maintenance item or, replace with a converter.	2017/3/31	2018/3/31

Item	Model name	Replacement product		End-of-Sale date	End-of-Support date
		Model name	Precautions		
PROFIBUS-DP interface	F3LB01-0N		No replacement product is available. Replace with a maintenance item or replace with a converter.	2017/3/31	2018/3/31
YHLS master	F3LH02-0N	F3LH02-1N	Communication interface differs.	2009/4/14	End of support
NX interface	F3NX01-0N	F3NX01-2N	Software compatible but has no AUI port. Connector location and appearance differ. 100 Mps is supported.	2010/12/22	End of support
	F3NX01-1N	F3NX01-2N	Software compatible but has no AUI port. Connector location and appearance differ.	2015/12/29	End of support
RS-232-C communications	F3RS22-0N	-	No replacement product is available.	2017/3/31	2022/3/31
RS-422/RS-485 communications	F3RS41-0N	-	No replacement product is available.	2017/3/31	2022/3/31
Ladder communications	F3RZ81-0N	F3RZ81-0F	Software modification is needed.	2009/1/24	End of support
	F3RZ91-0N	F3RZ91-0F		2008/9/30	End of support
Modem	F3LM01-1N	F3LC11-1F	Can be replaced with F3LC11-1F combined with an external analog modem.	2001/6/30	End of support
μ bus master	F3LU01-0N	-	No replacement product is available. Migration to YHLS is necessary.	2007/9/30	End of support
FA link	F3LP01-0N	F3LP02-0N	Supports faster communications. Software-compatible.	2008/9/30	End of support
FA link H	F3LP02-0N	F3LP□□-□N ³	Software compatible but hardware incompatible. New and old products cannot be mixed.	2019/3/31	2020/3/31
Fiber-optic FA link H	F3LP12-0N	-	No replacement product is available. Replace with a maintenance item or with an FL-net interface module combined with a fiber-optic cable.	2019/3/31	2020/3/31
Positioning (with multi-channel pulse output)	F3YP04-0N	F3YP24-0P	Relay and register configurations differ. Software modification is necessary.	2008/9/30	End of support
	F3YP08-0N	F3YP28-0P	Hardware incompatible. External power supply for pulse output is changed from 5VDC to 24VDC. The number of installable modules is changed from 36 (288 axes) to 16 (128 axes).	2008/9/30	End of support
	F3YP12-0V*1	F3YP22-0P	Hardware incompatible. External power supply for pulse output is changed from 5VDC to 24VDC.	2014/3/31	2019/3/31
	F3YP14-0N	F3YP24-0P	Software compatible, but the number of installable modules is changed from 36 (288 axes) to 16 (128 axes).	2014/3/31	2019/3/31
	F3YP18-0N	F3YP28-0P	Shorter control cycle and startup time might require application adjustment after module replacement.	2014/3/31	2019/3/31
Positioning	F3NC01-0N	-	F3NC□ and F3YP□ are functionally upward compatible, but hardware/program incompatible so redesign is necessary. Replace with a maintenance item.	2014/3/31	2019/3/31
	F3NC02-0N			2014/3/31	2019/3/31
	F3NC02-1N ⁴			2014/3/31	2019/3/31
	F3NC04-0N ⁴			2014/3/31	2019/3/31
Positioning (advanced positioning with pulse output)	F3NC11-0N	-	F3NC□ and F3YP□ are functionally upward compatible, but hardware/program incompatible so redesign is necessary. Replace with a maintenance item.	2014/3/31	2019/3/31
	F3NC12-0N			2014/3/31	2019/3/31
	F3NC12-1N ⁴			2014/3/31	2019/3/31
Positioning (with MECHATROLINK-I interface)	F3NC95-0N ⁴	F3NC96-0N	MECHATROLINK- I interface is upgraded to MECHATROLINK- II interface. Software-compatible.	2008/9/30	End of support

Item	Model name	Replacement product		End-of-Sale date	End-of-Support date
		Model name	Precautions		
FA-M3 Value	F3SC21-1N			2007/9/30	End of support
FA-M3 Value 2	F3SC22-1F			2007/9/30	End of support
	F3SC22-2F			2007/9/30	End of support
	F3SC22-1A			2007/9/30	End of support
	F3SC23-1F	Substitute F3SP05-0P, F3SP08-0P (power supply plus sequence CPU) with F3SP22-0S plus F3PU10-0S. *5		2012/7/27	End of support
	F3SC23-2F			2007/9/30	End of support
	F3SC23-1A			2012/7/27	End of support
	F3SC23-2P			2012/7/27	End of support
	F3SC23-6P			2012/7/27	End of support
	FA-M3 Value for maintenance (power supply, CPU)	F3SP05-0P			2007/9/30
FA-M3 Value 2 for maintenance (power supply, CPU)	F3SP08-0P	F3SP22-0S (CPU) + F3PU10-0S (power supply, M4 terminal screws) *5		2007/9/30	End of support
	F3SP08-SP			2012/7/27	End of support

- *1: Programming tool WideField3 (SF630-MCW) is required for using F3SP71-4S, F3SP76-7S and F3SP22-0S.
*2: Models without suffix code "/2N" are at end-of-sale. Replacement models have suffix code "/2N", and different connector shapes.
*3: This is a new product scheduled for release in December 2018. Details will be announced later.
*4: This is a bespoke product for specific customers but is used by many customers, and is thus included in this end-of-sale announcement.
*5: The latest programming tool WideField3 (SF630-MCW) is required for using F3SP22-0S.

■ Software

Table 2.2 List of End-of-Sale Software Products

Item	Model name	Replacement product		End-of-Sale date	End-of-Support date
		Model name	Precautions		
FA-M3 programming tool WideField	SF610-JCW	SF630-MCW	Windows 7/8/8.1/10 (x86/x64) compatible with multilingual (Japanese / English) support and added functions for improved operability, visibility and reusability.	2007/9/30	End of support
	SF610-ECW			2007/9/30	End of support
FA-M3 programming tool WideField2	SF620-JCW			2009/2/18	End of support
	SF620-ECW			2009/2/18	End of support
	SF620-MCW			2013/1/31	End of support
FA-M3 programming tool WideField3	SF630-JCW			2013/1/31	End of support
Ladder programming tool M3	SF510-J3N			2007/9/30	End of support
	SF510-J3P			2007/9/30	End of support
	SF510-E3W			2007/9/30	End of support
	SF510-E3P			2007/9/30	End of support
	SF510RU-J3N			1999/12/31	End of support
	SF510RU-J3P			1999/12/31	End of support
Network print function (used by ladder programming tool M3)	SF512-J3W				
Auto-download function (used by ladder programming tool M3)	SF513-J3W	-	No replacement product is available.	2007/9/30	End of support
BASIC programming tool M3	SF550-J3N	-	No replacement product is available.	2007/9/30	End of support
	SF550-J3P			2007/9/30	End of support
	SF560-JCW			2017/3/31	2022/3/31
	SF560-ECW			2017/3/31	2022/3/31
	SF550RU-J3N			1999/8/31	End of support
	SF550RU-J3P			1999/8/31	End of support
	SF560RU-JCW			2007/9/30	End of support
Sequence programming tool for Windows POPMUSCAT	SF850-JW3	-	No replacement product is available.	2007/9/30	End of support
	SF850-EWN			2007/9/30	End of support
	SF850-LCK			2007/9/30	End of support
	SF850RU-JW3			2007/9/30	End of support
	SF850RU-EWN			2007/9/30	End of support
ToolBox for temperature control and monitoring modules	SF661 -JCW	SF661-MCW	Consolidated into a multi-lingual (Japanese/English) product.	2013/1/31	End of support
	SF661 -ECW			2013/1/31	End of support
ToolBox for positioning modules	SF662 -JCW	SF662-MCW		2013/1/31	End of support
	SF662 -ECW			2013/1/31	End of support

■ Peripherals

Table 2.3 List of End-of-Sale Peripherals

Item	Model name	Replacement product		End-of-Sale date	End-of-support date
		Model name	Precautions		
YHLS slave unit (TAC series)	TACXD08-3AE	-	No replacement product is available.	2009/4/14	End of support
	TACXD16-3AM			2009/4/14	End of support
	TACYD08-1AE			2009/4/14	End of support
	TACYD16-1AM			2009/4/14	End of support
	TACYC04-0NB			2009/4/14	End of support
	TACWD08-3NE			2009/4/14	End of support
	TACWD16-3NM			2009/4/14	End of support
SIO port/D-sub 9-pin adaptor cable	KM10-0S	-	No replacement product is available as this is a F3SP6□ dedicated cable.	2019/3/31	2024/3/31
Programming tool cable	KM11-3N*A	KM11-2N/Z KM11-2T/Z	This is available as a TOKUCHU (bespoke) product.	2008/9/30	End of support
	KM11-4N*A			2008/9/30	End of support
	KM11-3T*A			2008/9/30	End of support
	KM11-4T*A			2008/9/30	End of support
	KM12-2N	-	No replacement product is available.	2007/9/30	End of support
	KM12-3N			2007/9/30	End of support
	KM12-4N			2007/9/30	End of support
KM13-1N	KM13-1S	Driver software for USB connection needs to be changed. Cable appearance, specifications, price, etc. are unchanged.	2006/11/17	End of support	
Monitor cable	KM21-2N	-	No replacement product is available as this is a F3SP6□ dedicated cable.	2019/3/31	2024/3/31
	KM21-2T			2019/3/31	2024/3/31
Fiber-optic cable for indoor use with tension members (with bonding and polishing treatment on optical connector)	KM61-150			2014/3/31	End of support
	KM61-200			2014/3/31	End of support
Fiber-optic cable for outdoor use with tension members (with bonding and polishing treatment on optical connector)	KM62-200	Substitute with alternative product from Sumitomo Electric Industries.	Replacement product KM61: 2-V-V HC-20/07 KM62: 2-C-LAP HC-20/07 KM65: 2-C-V HC-20/07 (Specify the cable length by an L suffix after the model name /). Consult the following vendor for purchase: Sanden Corporation 4-34-9, Midori, Sumida, Tokyo 130-0021, Japan Phone: +81 3 (3632) 2131 FAX: +81 3 (3632) 2138	2018/3/31	2018/3/31
	KM62-300			2014/3/31	End of support
	KM62-400			2014/3/31	End of support
	KM62-500			2014/3/31	End of support
	KM62-600			2014/3/31	End of support
	KM62-700			2014/3/31	End of support
	KM62-800			2014/3/31	End of support
	KM62-900			2014/3/31	End of support
KM62-L01	2014/3/31	End of support			

Item	Model name	Replacement product		End-of-Sale date	End-of-support date
		Model name	Precautions		
Fiber-optic cable for indoor use with tension members (with crimping and cutting treatment on optical connector)	KM65-002	Use replacement product from Sumitomo Electric Industries listed in the next column or the following cables of different lengths, which are still available for sale. KM65-001 (1m) KM65-003 (3m) KM65-005 (5m) KM65-010 (10m) KM65-020 (20m)	Replacement product KM61: 2-V-V HC-20/07 KM62: 2-C-LAP HC-20/07 KM65: 2-C-V HC-20/07 (Specify the cable length by an L suffix after the model name /). Consult the following vendor for purchase: Sanden Corporation 4-34-9, Midori, Sumida, Tokyo 130-0021, Japan Phone: +81 3 (3632) 2131 FAX: +81 3 (3632) 2138	2014/3/31	End of support
	KM65-004			2014/3/31	End of support
	KM65-007			2014/3/31	End of support
	KM65-012			2014/3/31	End of support
	KM65-015			2014/3/31	End of support
	KM65-025			2014/3/31	End of support
	KM65-030			2014/3/31	End of support
Fiber-optic cable for outdoor use	KM67-300	-	No replacement product is available.	2010/9/30	End of support
	KM67-400			2010/9/30	End of support
	KM67-500			2010/9/30	End of support
YHLS cable	KM81-300	KM81-□□□ or KM80-300	Substitute with KM81 flexible cable of different lengths (KM81-010, KM81-050, KM81-100, KM81-200) or KM80 fixed cable.	2018/3/31	2018/3/31
Connector terminal block	TA50-1N	TA50-2N	Terminal arrangement and internal connection are the same as the old product but the hole for mounting the terminal block has different tolerance. Be careful when attaching screws. There is no problem for mounting on DIN rail.	2014/3/31	End of support
	TA60-0N	-	No replacement product is available from Yokogawa. May be substituted with interface terminal block *6 (model: TIF540MH) from OEM Kasuga Electric but its appearance, size and specification (connection method) differ from the old product.	2012/9/30	End of support

*6: Contact Kasuga Electric (<http://www.kasuga.jp/>) for cable purchase.

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■ For Questions and More Information

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