

[Notification]

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Rev.1.10
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End of Support for TCP/IP Protocol Stack [M3S-T4-Tiny]
and QE for TCP/IP [Technical Preview Edition]

Outline

Support for the TCP/IP protocol stack [M3S-T4-Tiny] for SH2A and RX Family, as well as QE for TCP/IP: A Dedicated Tool for TCP/IP Development [Technical Preview Edition], ended on December 19, 2025.

1. End of support

Development of M3S-T4-Tiny and QE for TCP/IP has been discontinued.

No further functional enhancements or code maintenance are planned.

Support for M3S-T4-Tiny and QE for TCP/IP ended on December 19, 2025.

2. Introduction of successors

The successor to M3S-T4-Tiny for the RX family is lwIP Firmware Integration Technology(FIT).

When using lwIP FIT, please download the following two modules.

- r_lwip_rx Driver FIT: [Download](#)
- r_lwip_driver_rx Driver FIT: [Download](#)

For more information about lwIP, Please refer to [GitHub - lwip-tcpip](#).

Table 1 Comparison of old and new TCP/IP products

Item	M3S-T4-Tiny (without OS)	M3S-T4-Tiny (with OS)	lwIP FIT(Rev1.10) (without OS)	lwIP FIT(Rev1.10) (with OS)
Endianess	Little-endian/big-endian	Same as left	Little-endian/big-endian	Little-endian only
IP Version	IPv4 only	Same as left	IPv4/IPv6	Same as left
API	(1) ITRON TCP/IP API (2) Embedded TCP/IP M3S-T4-Tiny Socket API When combined with module, socket API support	Same as left	Raw/native API	(1)Netconn API (2) socket API
OS Support	None	μITRON	None	FreeRTOS
License	Renesas Software Agreement	Same as left	Modified BSD License	Same as left

Table 2 Comparison of supported protocols between old and new TCP/IP products

Layer	Protocol	M3S-T4-Tiny	lwIP FIT(Rev1.10) (Raw / native API, Netconn API, socket API)
Internet Layer	IPv4	Support	Support
Internet Layer	IPv6	Not supported	Support
Internet Layer	ICMP	Support	Support
Internet Layer	IGMP	Support	Support
Internet Layer	ARP	Support	Support
Transport Layer	TCP	Support	Support
Transport Layer	UDP	Support	Support
Application Layer	DHCP	Support	Support
Application Layer	DNS	Not supported (Note: The target sample code is no longer available.)	Support

If your application requires socket API support, consider alternatives such as:

- [Renesas lwIP FIT](#)
- [ZUKEN ELMIC products](#)
- [Ubiquitous AI Corporation](#) (proprietary API)

There are currently no third-party replacements available for the ITRON TCP/IP API.

No successor is planned for QE for TCP/IP.

Currently, there are no plans to replace QE for TCP/IP.

3. Precautions

(1) Please use M3S-T4-Tiny and QE for TCP/IP only for the maintenance of existing products.

For newly developed products which uses the RX Family, please use the successor lwIP FIT.

(2) The M3S-T4-Tiny can connect to the Internet, however it is not recommended due to security concerns.

If an Internet connection is required, please replace it with alternative product.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jun.20.25	-	First edition issued
1.10	Jan.20.26	1-2	Added support for lwIP FIT(Rev1.10)

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