Device Driver

デバイスドライバ

✓ : Available / 対応済 | – : Not Available / 非対応デバイス | * : FIT module unsupported / FITモジュール未対応

FIT Module (English)	FIT Module (Japanese)	Application Note	Sample Code	RX110	RX111	RX113	RX130	RX13T	RX140	RX14T	RX230	RX231	RX23EA	RX23EB	RX23T	RX23W	RX24T	RX24U	RX26T	RX260	RX261	RX64M	RX651	RX65N	RX660	RX66N	RX66T	RX671	RX71M	RX72M	RX72N	RX72T
Board Support Package Module (BSP)	ボードサポートパッケージ(BSP)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Voltage Detection Circuit (LVD)	電圧検出回路(LVD)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Low Power Consumption (LPC)	消費電力低減機能(LPC)	Application Note	Sample Code	✓	✓	✓	*	✓	✓	✓	✓	✓	*	✓	*	✓	*	*	✓	✓	✓	✓	*	✓	✓	✓	*	✓	✓	✓	✓	*
Battery Backup(VBATT)	バッテリバックアップ機能(VBATT)	Application Note	Sample Code	-	-	-	-	-	-	✓	✓	-	-	-	✓	-	-	-	-	-	-	-	-	*	*	-	✓	-	-	*	-
Interrupt Controller (IRQ)	割り込みコントローラ(IRQ)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Data Transfer Controller (DTC)	データトランスファコントローラ(DTC)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DMA Controller (DMACA)	DMAコントローラ (DMAC)	Application Note	Sample Code	-	-	-	-	-	-	-	✓	✓	✓	✓	-	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
I/O Ports (GPIO)	I/Oポート(GPIO)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multi-Function Pin Controller (MPC)	マルチファンクションピンコントローラ(MPC)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Compare Match Timer (CMT)	コンペアマッチタイマ(CMT)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Compare Match Timer W (CMTW)	コンペアマッチタイマW(CMTW)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-
Realtime Clock (RTC)	リアルタイムクロック(RTC)	Application Note	Sample Code	✓	✓	✓	✓	-	✓	-	✓	✓	-	✓	-	✓	-	-	-	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-
Low Power Timer (LPT)	ローパワータイマ(LPT)	Application Note	Sample Code	-	-	✓	✓	-	✓	-	✓	✓	-	✓	-	✓	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-
Independent Watchdog Timer (IWDT)	独立ウォッチドックタイマ(IWDT)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Watchdog Timer (WDT)	ウォッチドックタイマ(WDT)	Application Note	Sample Code	-	-	-	-	-	-	-	✓	✓	-	-	-	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Serial Communications Interface (SCI: Asynchronous/Clock Synchronous)	シリアルコミュニケーションインタフェース(SCI：調歩同期式/クロック同期式)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Serial Communications Interface (RSCI)	シリアルコミュニケーションインタフェース (RSCI)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	-	-	✓	-	-	✓	-	-	-	-
Serial Communications Interface with FIFO (SCIF: Asynchronous/Clock Synchronous)	FIFO 内蔵シリアルコミュニケーションインタフェース (SCIFA：調歩同期式/クロック同期式)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-	-
Serial Communications Interface (SCI: Simple I²C Bus)	シリアルコミュニケーションインタフェース(SCI：簡易I²Cバス)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Serial Communications Interface (RSCI: Simple I²C Bus)	シリアルコミュニケーションインタフェース(RSCI：簡易I²Cバス)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	-	-	✓	-	-	✓	-	-	-	-
I²C Bus Interface (RIIC)	I²Cバスインタフェース (RIIC)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RIICHS	ハイスピードI2C バスインタフェース (RIICHS)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-
I3C Bus Interface (RI3C)	I³Cバスインタフェース(RI3C)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
Serial Peripheral Interface	シリアルペリフェラルインタフェース	Application Note	Sample Code	✓	✓	✓	✓	-	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Serial Peripheral Interface (RSPIA)	シリアルペリフェラルインタフェース (RSPIA)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	✓	-	-	-	-
Quad Serial Peripheral Interface (QSPI: Device Driver for Serial Memory Control)	クワッドシリアルペリフェラルインタフェース (QSPI：シリアルメモリ制御用デバイスドライバ)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	-	-	✓	✓	✓	-
Quad-SPI Memory Interface (QSPIX)	クワッドSPIメモリインタフェース (QSPIX)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-
USB Basic Firmware	USB Basic Firmware	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Basic Mini Firmware	USB Basic Mini Firmware	Application Note	Sample Code	-	✓	✓	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
USB Host Mass Storage Class	USB Host Mass Storage Class	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Host Mass Storage Class for USB Mini Firmware	USB Host Mass Storage Class for USB Mini Firmware	Application Note	Sample Code	-	✓	✓	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
USB Host Communication Device Class	USB Host Communication Device Class	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Host Communication Device Class for USB Mini Firmware	USB Host Communication Device Class for USB Mini Firmware	Application Note	Sample Code	-	✓	✓	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
USB Host Human Interface Device Class	USB Host Human Interface Device Class	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Host Human Interface Device Class for USB Mini Firmware	USB Host Human Interface Device Class for USB Mini Firmware	Application Note	Sample Code	-	✓	✓	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
USB Peripheral Mass Storage Class	USB Peripheral Mass Storage Class	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Peripheral Mass Storage Class for USB Mini Firmware	USB Peripheral Mass Storage Class for USB Mini Firmware	Application Note	Sample Code	-	✓	✓	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
USB Peripheral Communications Device Class	USB Peripheral Communications Device Class	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Peripheral Communications Device Class for USB Mini Firmware	USB Peripheral Communications Device Class for USB Mini Firmware	Application Note	Sample Code	-	✓	✓	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
USB Peripheral Human Interface Device Class	USB Peripheral Human Interface Device Class	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
USBPeripheral Human Interface Device Class for USB Mini Firmware	USB Peripheral Human Interface Device Class for USB Mini Firmware	Application Note	Sample Code	-	✓	✓	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
PTP Module for the Ethernet Controller (EPTPC)	イーサネットコントローラ用PTP コントローラ (EPTPC)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	✓	✓	-
EPTPC Light Module (EPTPC Light: Device Driver for Enhanced Ethernet Function)	EPTPC Light モジュール (EPTPC Light:イーサネット機能拡張デバイスドライバ)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	✓	✓	-
Ethernet Controller (ETHERC)	イーサネットコントローラ (ETHERC)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	-	-	✓	✓	✓	-
EtherCAT	EtherCAT	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-
Controller Area Network (CAN)	コントローラエリアネットワーク (CAN)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
CAN FD API (CANFD)	CAN FD API (CANFD)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	✓	-	-	-	-	-	-	-
Controller Area Network (RSCAN)	コントローラエリアネットワーク (RSCAN)	Application Note	Sample Code	-	-	-	-	✓	-	✓	✓	✓	✓	-	✓	✓	✓	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-
IrDA	IrDA	Application Note	Sample Code	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Parallel Data Capture Unit (PDC)	パラレルデータキャプチャユニット (PDC)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	-	-	✓	✓	✓	-
SD Host Interface (SDHI)	SDホストインタフェース (SDHI)	Application Note	Sample Code	-	-	-	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	✓	✓	✓	-	✓	-	✓	✓	✓	✓	-
SD Slave Interface (SDSI)	SDスレーブインタフェース (SDSI)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-
MultiMediaCard Interface (MMCIF)	マルチメディアカードインタフェース (MMCIF)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	✓	-	-	✓	✓	✓	-
Delta-Sigma Modulator Interface (DSMIF)	Δ-Σ モジュールインタフェース (DSMIF)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-
12-Bit A/D Converter (S12AD)	12ビットA/Dコンバータ(S12AD)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
D/A Converter (DAC)	D/Aコンバータ(DAC)	Application Note	Sample Code	-	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
Flash Memory (On-chip flash memory Programing)	フラッシュメモリ(内蔵フラッシュ書き換え)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sampling Rate Converter (SRC)	サンプリングレートコンバータ (SRC)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-	-
Serial Sound Interface (SSI)	シリアルサウンドインタフェース(SSI)	Application Note	Sample Code	-	-	✓	-	-	-	-	✓	✓	-	-	-	✓	-	-	-	-	-	✓	-	-	-	✓	-	✓	✓	✓	✓	-
Trusted Secure IP(TSIP)	Trusted Secure IP(TSIP)	Application Note	Sample Code	-	-	-	-	-	-	-	-	✓	-	-	-	✓	-	-	✓	-	-	-	✓	✓	-	-	✓	✓	-	✓	✓	✓
Renesas Secure IP(RSIP) Protected Mode	Renesas Secure IP(RSIP) Protected Mode	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-
Renesas Secure IP(RSIP) Compatibility Mode	Renesas Secure IP(RSIP) Compatibility Mode	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-
AES	AES	-	-	-	-	-	-	*	*	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	-	-	✓	-	-	-	-
DES	DES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-	-
SHA	SHA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-	-
RNG	RNG	-	-	-	-	-	-	*	*	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	-	-	✓	-	-	-	-
LCD controller/driver (LCDC)	LCD コントローラ/ドライバ(LCDC)	Application Note	Sample Code	-	-	✓	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Graphic LCD Controller (GLCDC)	グラフィック LCD コントローラ(GLCDC)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	✓	-	-	-	✓	✓	-
UID	ユニークIDリード	Application Note	Sample Code	✓	✓	✓	✓	✓	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	*	-	-	-	-	*	-
Byte Queue Buffer (Data Manageme)	Byte Queue Buffer(データ管理)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Long Queue Buffer (Data Management)	Long Queue Buffer(データ管理)	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QE CTSU Module	QE CTSU Module	Application Note	Sample Code	-	-	✓	✓	-	✓	-	✓	✓	-	-	-	✓	-	-	-	✓	✓	-	-	-	-	-	-	✓	-	-	-	-
Event Link Controller (ELC)	イベントリンクコントローラ(ELC)	Application Note	Sample Code	*	*	✓	✓	-	✓	-	✓	✓	*	✓	*	✓	*	*	-	✓	✓	*	✓	✓	*	*	*	*	*	*	*	*
RX DRW2D Driver	RX DRW2D ドライバ	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	✓	-	-	-	✓	✓	-

"QE Utility Module (Profiles)" and "Mesh Module (Mesh)" use OSS. Other FIT modules in above table don't use OSS.

「QE Utilityモジュール (Profile)」と「メッシュモジュール (Mesh)」はOSSを使用しています。表中のその他FITモジュールはOSSを使用していません。

Middleware

ミドルウェア

✓ : Available / 対応済 | － : Not Available / 非対応デバイス | * : FIT module unsupported / FITモジュール未対応

FIT Module (English)	FIT Module (Japanese)	Application Note	Sample Code	RX110	RX111	RX113	RX130	RX13T	RX140	RX14T	RX230	RX231	RX23EA	RX23EB	RX23T	RX23W	RX24T	RX24U	RX26T	RX260	RX261	RX64M	RX651	RX65N	RX660	RX66N	RX66T	RX671	RX71M	RX72M	RX72N	RX72T
System Timer Module	システムタイマモジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
lwIP (lightweight IP) Driver	lwIP (lightweight IP) Driver	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	-	-	✓	✓	✓	-
lwIP (lightweight IP)	lwIP (lightweight IP)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	-	-	✓	✓	✓	-
SX-ULPGN-2000 Wi-Fi Module Control Module	SX-ULPGN-2000 Wi-Fiモジュール制御モジュール	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	✓	-	-	✓	-
US159-DA16200MEVZ Wi-Fi Control Module	US159-DA16200MEVZ Wi-Fi Control Module	Application Note	Sample Code	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	✓	-	✓	-	-	✓	-	-	-
BLE Module (BLE)	BLE モジュール (BLE)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RYZ012 Bluetooth Low Energy Module	RYZ012 Bluetooth Low Energyモジュール	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-
QE Utility Module (Profiles)	QE Utilityモジュール (Profile)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mesh Module (Mesh)	メッシュモジュール (Mesh)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
US159-DA14531EVZ BLE Control Module	US159-DA14531EVZ BLE Control Module	Application Note	Sample Code	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	✓	-	✓	-	✓	-	-	-	-
RYZ014A Cellular module	RYZ014A Cellular モジュール	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	✓	-	-	-	✓	✓	-
PTX NFC Control Module	PTX NFC Control Module	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-
SD memory card driver module	SDメモリカードドライバモジュール	Application Note	Sample Code	-	-	-	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	✓	✓	✓	-	✓	-	✓	✓	✓	✓	-
SPI Mode SD Memory Card Driver Firmware Integration Technology	SPIモードSDメモリカードドライバモジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SDIO Wireless Lan (For eWBC in d-broad, Inc.)	SDIO無線LAN (d-broad社製eWBC用)	-	-	-	-	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	✓	✓	✓	-	✓	-	✓	✓	✓	✓	-
Flash Memory Data Management Module	フラッシュメモリデータ管理モジュール	Application Note	Sample Code	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clock Synchronous Control Module for Serial Flash Memory Access	Serial NOR Flash memoryアクセス クロック同期制御モジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clock Synchronous Control Module for EEPROM Access	EEPROMアクセス クロック同期式制御モジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Memory Access Driver Interface Module	メモリアクセス用ドライバインタフェースモジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JPEG Decoder Module	JPEGデコーダモジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JPEG Encoder Module	JPEGエンコーダモジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AES library	AESライブラリ	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DES library	DESライブラリ	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SHA library	SHAライブラリ	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RSA library	RSAライブラリ	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sound Playback/Compression System (Original ADPCM Codec) [M3S-S2-Tiny] Module	音声録音・再生システム(独自ADPCMコーデック) M3S-S2-Tinyモジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Open Source FAT File System [M3S-TFAT-Tiny] Module	FATファイルシステムM3S-TFAT-Tinyモジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M3S-TFAT-Tiny Memory Driver Interface Module	M3S-TFAT-Tinyメモリドライバインタフェースモジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Firmware Update Module	ファームウェアアップデート モジュール	Application Note	Sample Code	-	-	-	✓	-	✓	-	✓	✓	✓	✓	-	-	✓	-	✓	-	✓	-	✓	✓	✓	✓	✓	✓	-	✓	✓	-
Firmware Updating Communications Module	ファームウェアアップデート通信モジュール	Application Note	Sample Code	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	-	-	✓	-	-	✓	✓	-	✓	-	-	-	-	-
MCUboot Module	MCUboot モジュール	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	✓	-	✓	-	✓	-	✓	✓	-
QE Touch Module	QE Touch モジュール	Application Note	Sample Code	-	-	✓	✓	-	✓	-	✓	✓	-	-	-	✓	-	-	-	✓	✓	-	-	-	-	-	-	✓	-	-	-	-
Reality AI UART Communication Module	-	Application Note	Sample Code	*	*	*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reality AI USB PCDC Communication	-	Application Note	Sample Code	*	*	*	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓
Reality AI Data Collector Control Module	-	Application Note	Sample Code	*	*	*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reality AI Data Shipper Control Module	-	Application Note	Sample Code	*	*	*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Aeropoint module	Aeropoint モジュール	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	✓	-	-
emWin v6.52 module	emWin v6.52 モジュール	Application Note	Sample Code	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QE for Display module	QE for Display モジュール	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	✓	-	-	-	✓	✓	✓	-

"FAT Filesystem M3S-TFAT-Tiny Module" uses OSS. Other FIT modules in above table don't use OSS.

「FATファイルシステムM3S-TFAT-Tinyモジュール」はOSSを使用しています。表中のその他FITモジュールはOSSを使用していません。

Sample Code Using Firmware Integration Technology

FITモジュールを使用したサンプルプログラム

✓: Available / 対応済 | － : Not Available / 非対応デバイス

FIT Module (English)	FIT Module (Japanese)	Application Note	Sample Code	RX110	RX111	RX113	RX130	RX13T	RX140	RX14T	RX230	RX231	RX23EA	RX23EB	RX23T	RX23W	RX24T	RX24U	RX26T	RX260	RX261	RX64M	RX651	RX65N	RX660	RX66N	RX66T	RX671	RX71M	RX72M	RX72N	RX72T
PTP Module for the Ethernet Controller (EPTPC: PTP Get Synchronous Time)	イーサネットコントローラ用PTP コントローラ (EPTPC：PTP同期時刻取得サンプルプログラム)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-
PTP Module for the Ethernet Controller (EPTPC:PTP Timer Synchronous Start)	イーサネットコントローラ用PTP コントローラ (EPTPC：PTPタイマ同期開始サンプルプログラム)	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-
Ethernet Controller: Retrieve Recommend Operation in case of Illegal Frame Detection	イーサネットコントローラ 異常フレーム検出時の推奨復帰処理	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-
PTP Synchronous Pulse Output Using Firmware Integration Technology Modules	EPTPC：同期パルス出力サンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-
Ethernet Simple Switch Function Using Firmware Integration Technology Modules	イーサネットコントローラ：簡易スイッチ動作	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-
Ethernet Multicast Frame Filter Function Using Firmware Integration Technology	イーサネットコントローラ：マルチキャストフレームフィルタ動作	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-
ADPCM sample program	ADPCMサンプルプログラム	Application Note	Sample Code	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-
USB Host Mass Storage Class sample program	USB Host Mass Storage Classサンプルプログラム	Application Note	Sample Code	-	✓	✓	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USB Host Communication Device Class sample program	USB Host Communication Device Classサンプルプログラム	Application Note	Sample Code	-	✓	✓	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USB Host Human Interface Device Class sample program	USB Host Human Interface Device Classサンプルプログラム	Application Note	Sample Code	-	✓	✓	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USB Peripheral Mass Storage Class sample program	USB Peripheral Mass Storage Classサンプルプログラム	Application Note	Sample Code	-	✓	✓	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USB Peripheral Communications Device Class sample program	USB Peripheral Communications Device Classサンプルプログラム	Application Note	Sample Code	-	✓	✓	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USB Peripheral Human Interface Device Class sample program	USB Peripheral Human Interface Device Classサンプルプログラム	Application Note	Sample Code	-	✓	✓	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USB Host Mass Storage Class sample program	USB Host Mass Storage Classサンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Host Communication Device Class sample program	USB Host Communication Device Classサンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Host Human Interface Device Class sample program	USB Host Human Interface Device Classサンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Peripheral Communications Device Class sample program	USB Peripheral Communications Device Classサンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Peripheral Mass Storage Class sample program	USB Peripheral Mass Storage Classサンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	✓	✓	✓	✓	✓	✓
USB Peripheral Human I/F Device Class sample program	USB Peripheral Human I/F Device Classサンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	✓	✓	✓	✓	✓	✓
Sample programs to use SRC FIT module for sampling rate conversion	SRC モジュールを使用するサンプリングレート変換サンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
Sample programs to use SSI FIT module for PCM data transfer	SSI モジュールを使用するPCM データ転送サンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
RAM Soft Error Diagnosis Example	RAM ソフトエラー診断例	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓	-	-	-
Sample Program to use DTC module for sequence transfer	DTC モジュールを使用するシーケンス転送サンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-
Firmware Update Sample Program with Dual Bank Function	デュアルバンク機能を用いたファームウェアアップデートサンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-
Sample Program for Displaying Images on the TFT-LCD Panel Using the Graphic LCD Controller Module	グラフィックLCDコントローラモジュールを用いたTFT-LCD パネルへの画像表示サンプルプログラム	Application Note	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-