

# MICROSAR FrTp


## Document Information

## History

Author	Date	Version	Remarks
	- -		-
	- -		
	- -		
	- -		
	- -		
	- - - -		
	- -		
	- - - -		
	- -		
	- -		
	- -		-
	- -		
	- - - -		-        -        -
	- -		
	- -		

	- -		
	- -		
	- -		
	- -		
	- -		
	- -		-
	- -		-
	- -		
	- -		
	- -		
	- -		-
	- -		- -

Referenced Documents

No.	Source	Title	Version
[1]		-	- -
[2]			
[3]			

[4]			
[5]			
[6]			
[7]			
[8]			
[9]			
[10]			
[11]			
[12]			
[13]		- - -	



Caution

# Contents

1	Component History .....	8
2	Introduction.....	9
3	Functional Description .....	12
4	Integration .....	15
5	API Description .....	23





## Illustrations

—

.....

.....

# Tables

-----

[illegible]

1 Component History

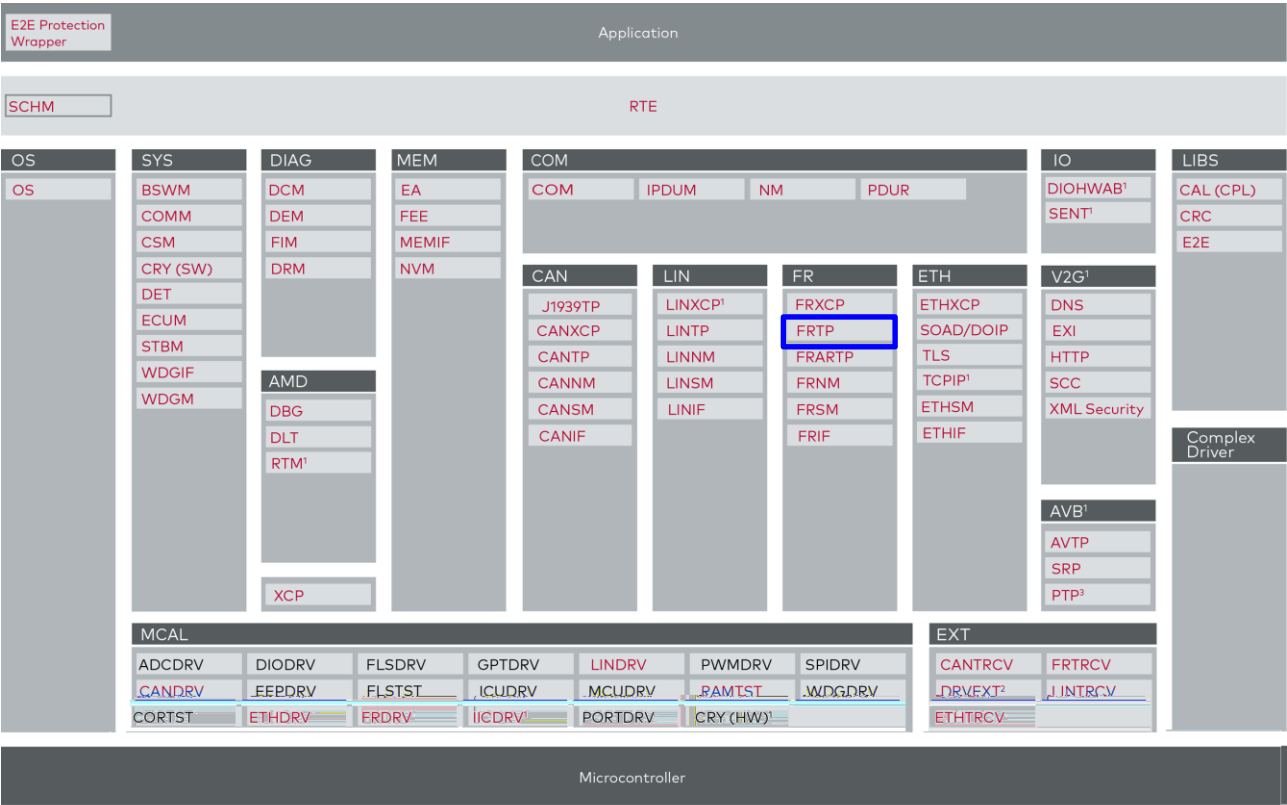
Component Version	New Features



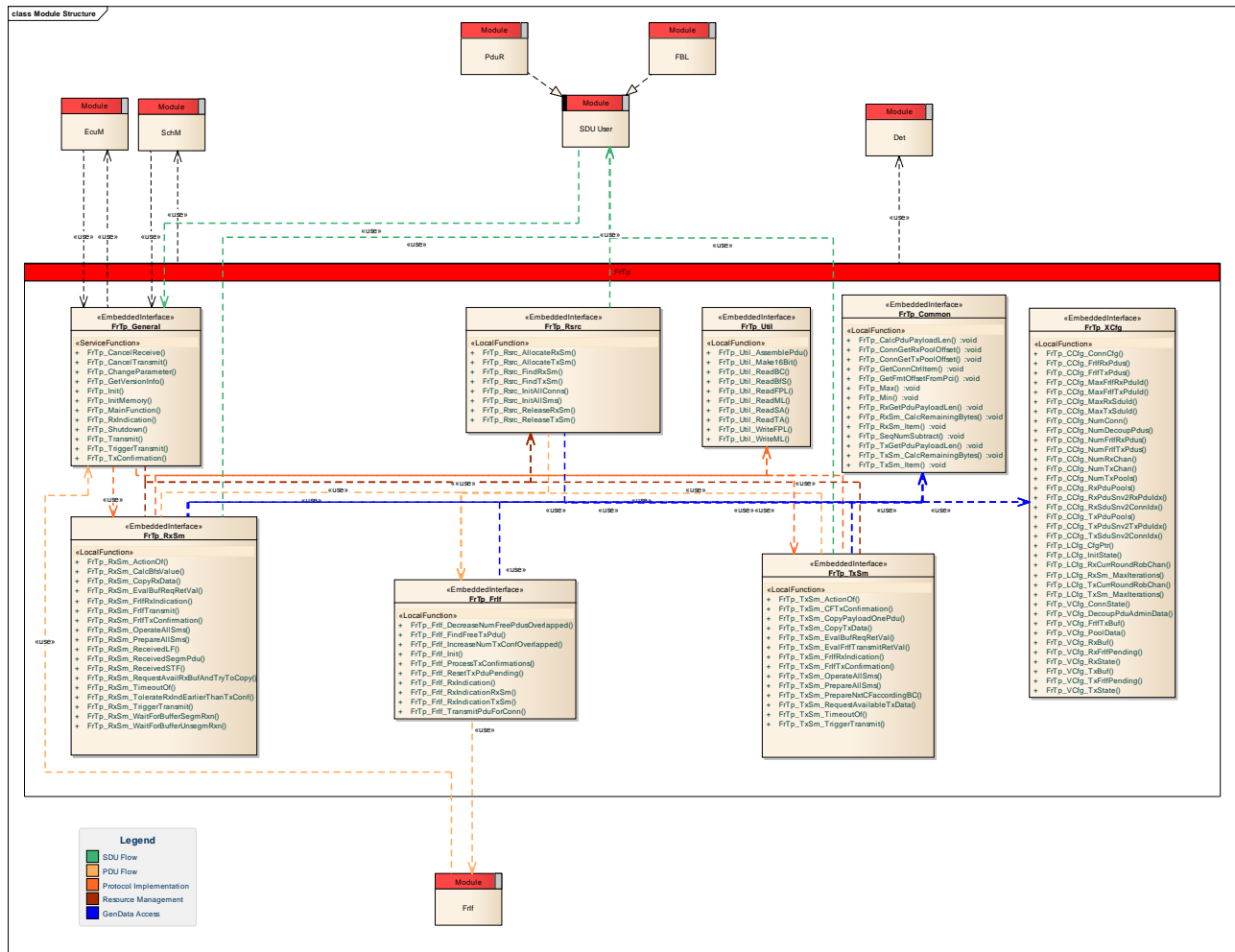
2 Introduction

Supported AUTOSAR Release*:			
Supported Configuration Variants:	-	-	-
Vendor ID:			-
Module ID:			

2.1 Architecture Overview



<sup>1</sup> Available extensions for AUTOSAR  
<sup>2</sup> Includes EXTADC, EEPEXT, FLSEXT, and WDGEXT



### 3 Functional Description

#### 3.1 Features

> -

> -

> -

Supported AUTOSAR Standard Conform Features	
	-

-

##### 3.1.1 Deviations

Category	Description	Version

Category	Description	Version
	- -	
	-	
	- -	

3.1.2 Additions/ Extensions

Features Provided Beyond The AUTOSAR Standard

3.2 Error Handling

3.2.1 Development Error Reporting

```
Det_ReportError()  
- FrTp_DEV_ERROR_DETECT==STD_ON  
  
Det_ReportError()
```

Service ID	Service

[illegible][illegible]

4 Integration

4.1 Scope of Delivery

4.1.1 Static Files

File Name	Description
	- - -

4.1.2 Dynamic Files

File Name	Description
	- - -
	-

4.2 Critical Sections



>

- -

>

>

- -

>

>

>

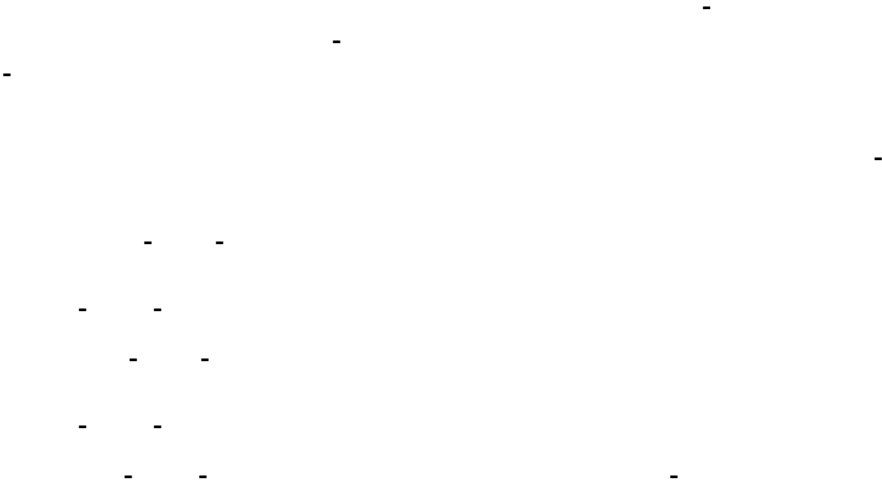
>

-





Note



4.3 Compiler Abstraction and Memory Mapping

Compiler Abstraction Definitions		
Memory Mapping Sections		
F RTP_START_SEC_CONST_32BIT	■	
F RTP_START_SEC_CONST_16BIT	■	
F RTP_START_SEC_CONST_8BIT	■	
F RTP_START_SEC_PBCFG_ROOT	■	

F RTP_START_SEC_CONST_UNSPECIFIED	■			
F RTP_START_SEC_PBCFG			■	■
F RTP_START_SEC_VAR_ZERO_INIT_UNSPECIFIED			■	■
F RTP_START_SEC_VAR_NOINIT_UNSPECIFIED		■		■
F RTP_START_SEC_VAR_NOINIT_32BIT		■		■
F RTP_START_SEC_VAR_NOINIT_16BIT		■		■
F RTP_START_SEC_VAR_NOINIT_8BIT		■		■
F RTP_START_SEC_CODE	■			

4.4 Compatibility Checks

4.5 Steps to Start Up

4.5.1 Checklist



Caution

- >
- >
- >
- >
- >
- >
- >
- > not - - -
- > mandatory at least one - -

4.5.2 Transmission

- 1.
2. -
3. - - -
4. -
- 5.
6. -

4.5.3 Reception

1. 

-

-

-
2. 

-

-
3. 

-

-
4. 

-
5. 

-

-

-

4.5.4 Buffer Handling

- -

-

-
- -



Caution

- -
- functional

in one piece

-

-

4.6 Troubleshooting

Symptom	Solution
-	- - - - - -
	-
	-
	-

4.7 Postbuild Variants

4.7.1 Post-build Selectable

-  
-  
-  
-  
-

4.7.2 Post-build loadable

-  
- -

>

>

>

>

-

>

-

>

-

>

-

4.7.3 Post-build loadable selectable

-

-

4.7.4 Post-build deleteable

-

-

-

4.8 Recommended compiler switches



Note

`-misalign_pack` option `-pack=1`

## 5 API Description

## 5.1 Type Definitions

## 5.2 Services provided by FrTp

### 5.2.1 FrTp\_Init

Prototype	
retCode	(FrTp_ConfigType *CfgPtr)
Parameter	
CfgPtr	
Return code	
Void	
Functional Description	
<div>-</div> <div>-</div> <div>-</div> <div>-</div>	
Particularities and Limitations	
<div>&gt;</div> <div>&gt;</div> <div>&gt;</div> <div>&gt;</div> <div>-</div> <div>-</div> <div>-</div> <div>&gt;</div>	
>	

### 5.2.2 FrTp\_InitMemory

```
void          ( void )
```

Parameter	
void	
Return code	
void	
Functional Description	
-	
Particularities and Limitations	
>	
>	
> -	
> - -	
>	

5.2.3 FrTp\_Shutdown

Prototype	
void	( void )
Parameter	
void	
Return code	
void	
Functional Description	
-	
Particularities and Limitations	
>	
>	
> -	
> - -	



>

5.2.4 FrTp\_Transmit

Prototype	
Std_ReturnType ( PduIdType FrTpTxSduId, const PduInfoType* FrTpTxSduInfoPtr )	
Parameter	
FrTpTxSduId	
FrTpTxSduInfoPtr	
Return code	
Std_ReturnType	<div>1. - -</div> <div>2. -</div> <div>3.</div>
Functional Description	
<div>-</div> <div>-</div>	

Particularities and Limitations	
>	
>	
>	-
>	
>	
>	
>	-
>	-
>	-
>	
>	

5.2.5 FrTp\_CancelTransmit

Prototype	
Std_ReturnType	(PduIdType FrTpTxPduId )
Parameter	
FrTpTxPduId	
Return code	
Std_ReturnType	-
	-
Functional Description	

Particularities and Limitations	
>	
>	
>	-
>	
>	
>	
>	-
>	
>	
>	

5.2.6 FrTp\_CancelReceive

Prototype	
Std_ReturnType	( )
Parameter	
FrTpRxPduId	
Return code	
Std_ReturnType	- -
Functional Description	

Particularities and Limitations	
>	
>	
>	-
>	
>	
>	
>	-
>	
>	
>	

5.2.7 FrTp\_ChangeParameter

Prototype	
Std_ReturnType (PduIdType FrTpSduId, TPPParameterType FrTpParameterType, unit16 FrTpParameterValue )	
Parameter	
FrTpSduId	
FrTpParameterType	
FrTpParameterValue	-
Return code	
retCode	
Functional Description	
- - - -	
Particularities and Limitations	
>	
>	
>	-
>	- -

>

5.2.8 FrTp\_MainFunction

Prototype	
void	( void )
Parameter	
void	
Return code	
void	
Functional Description	
<div>-</div> <div>-</div> <div>-</div>	
Particularities and Limitations	
<div>&gt;</div> <div>&gt;</div> <div>&gt;</div> <div>&gt;</div> <div>&gt;</div> <div>&gt;</div> <div>&gt;</div> <div>-</div> <div>-</div>	
>	



Caution

>  
>  
> - - - - -  
> - - - - -  
> - - - - -



Example

- -  
  
> - - - - -  
> - - - - -

5.2.9 FrTp\_GetVersionInfo

Prototype	
void	(Std_VersionInfoType *pVersionInfo)
Parameter	
pVersionInfo	- - - - -
Return code	
retCode	
Functional Description	
-	

Particularities and Limitations

- >
- >
- >
- >

-

5.4.1 FrTp\_TxConfirmation

Prototype	
void	(PduIdType FrIfTxPduId )
Parameter	
FrIfTxPduId	- - -
Return code	
void	
Functional Description	
- -	
Particularities and Limitations	
>	
>	
> -	
>	
>	
> - -	
> - -	
> -	
>	

5.4.2 FrTp\_RxIndication

Prototype	
void	( )
Parameter	
FrRxPduId	- -
FrIf_PduInfoPtr	- -
Return code	
void	
Functional Description	
- - -	



Particularities and Limitations	
>	
>	
>	-
>	
>	
>	-
>	

5.4.3 FrTp\_TriggerTransmit

Prototype	
Std_ReturnType FrTpTxPduInfoPtr )	(PduIdType FrIfTxPduId, PduInfoType*
Parameter	
FrIfTxPduId	- - - -
FrTpTxPduInfoPtr	- - -
Return code	
Std_ReturnType	
Functional Description	
-	- - - - -

Particularities and Limitations

- >
- >
- > - -
- >
- > - -



## 6 Glossary and Abbreviations

## 6.1 Glossary

Term	Description

## 6.2 Abbreviations

[illegible]

7    Contact

- >
- >
- >
- >
- >
- >

---