

EFuse_ComCnvTx | 2022-10-14

EFuse_ComCnvTx

[COMP]

RB Internal

I [EFuse_ComCnvTx]

1 Function Definition

1.1 Purpose

EFuse Function develop introduction

1.2 Introduction

GAC ZCU Project Trunk Area EFuse Function:EFuse_ComCnvTx

2 Function Description

2.1 Behavior in normal mode

Figure 1 EFuse_ComCnvTx [EFuse_ComCnvTx]

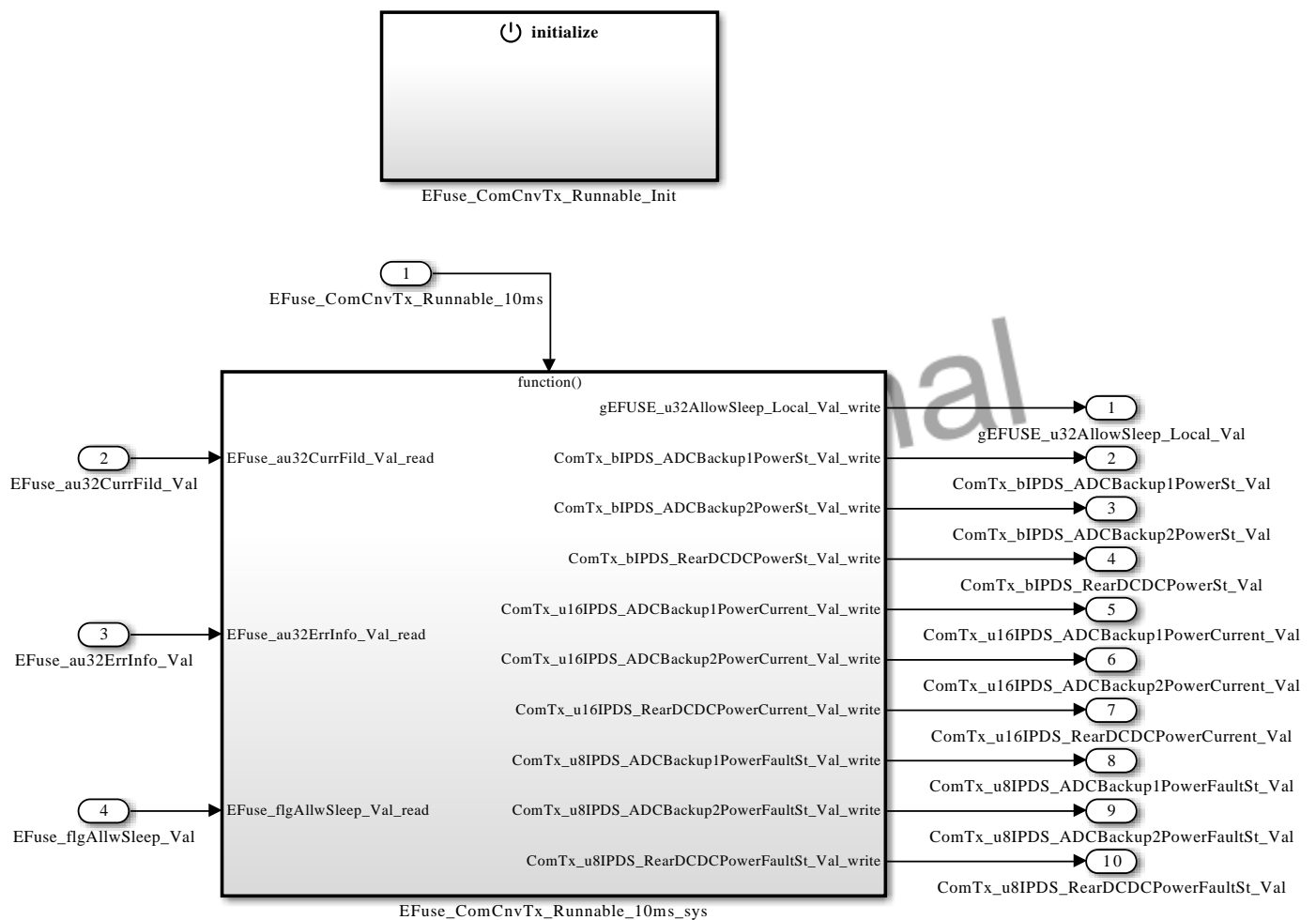


Figure 2 EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_CurrCANMessageSend [EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_CurrCANMessageSend]

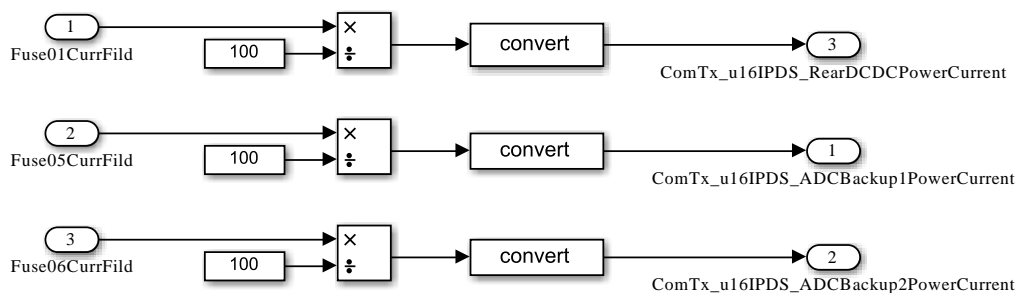


Figure 3 EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoSignalRead_RearDCDCFault [EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoSignalRead_RearDCDCFault]

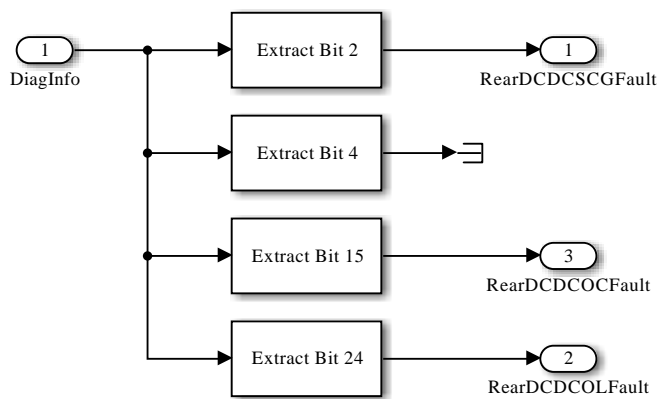


Figure 4 EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_CurrSignalRead [EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_CurrSignalRead]

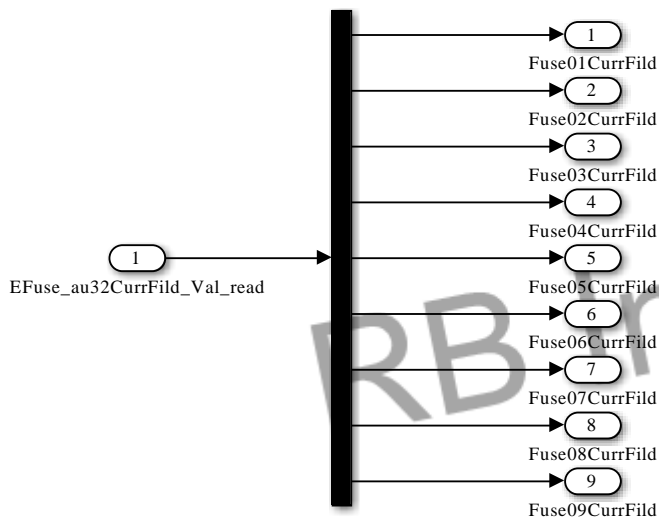


Figure 5 EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_Init [EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_Init]



Figure 6 EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoCANMessageSend [EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoCANMessageSend]

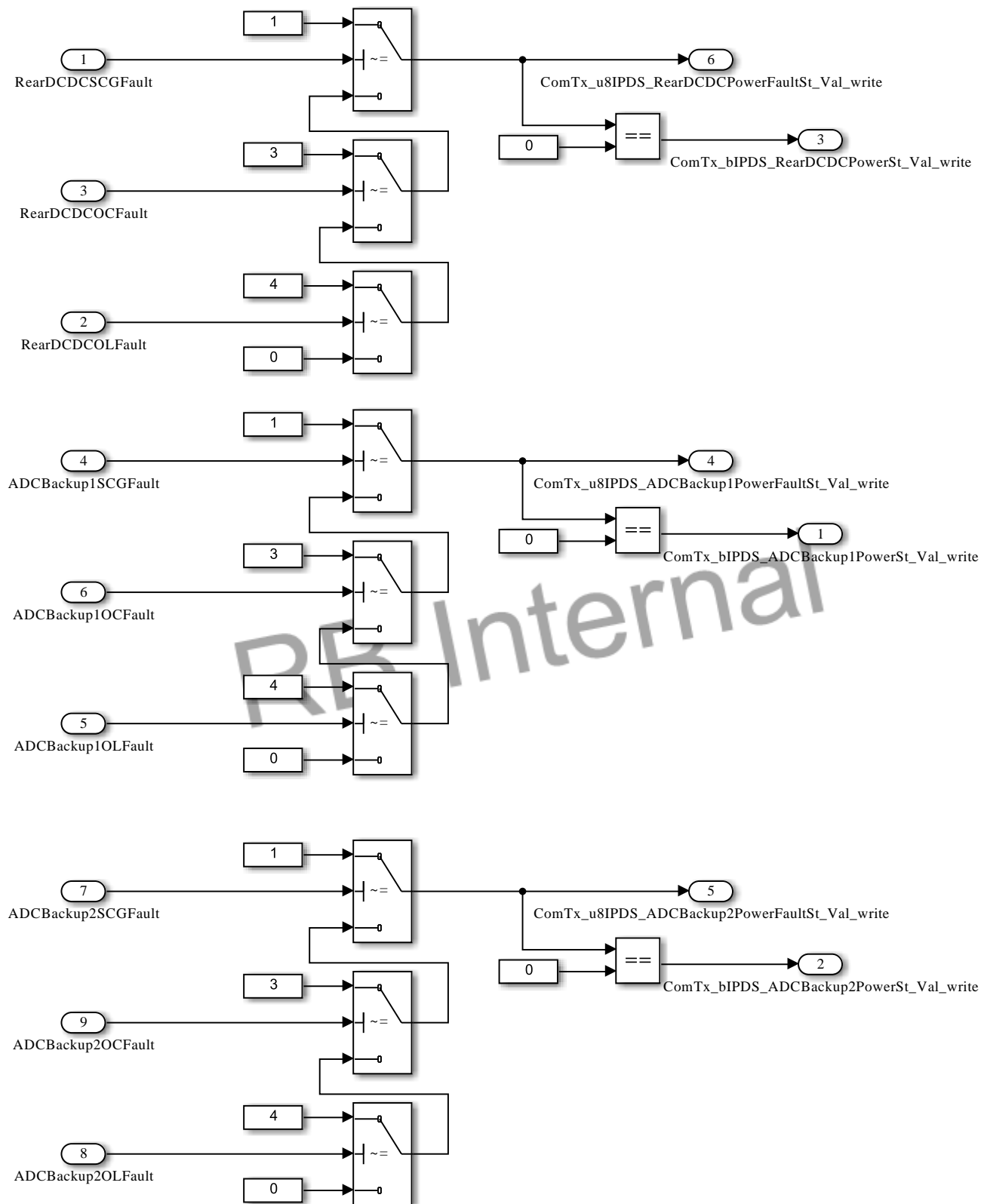


Figure 7 EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoSignalRead_ADCBackup1Fault [EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoSignalRead_ADCBackup1Fault]

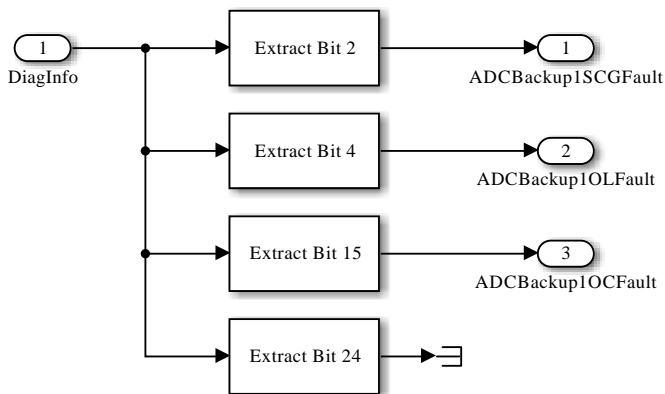


Figure 8 EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoSignalRead_ADCBackup2Fault [EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoSignalRead_ADCBackup2Fault]

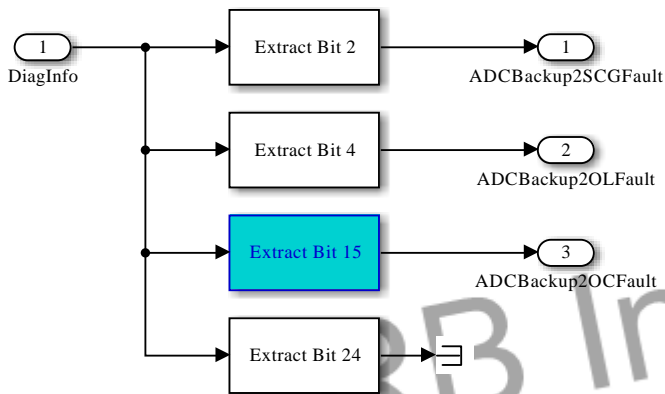


Figure 9 EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoSignalRead [EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys_ErrInfoSignalRead]

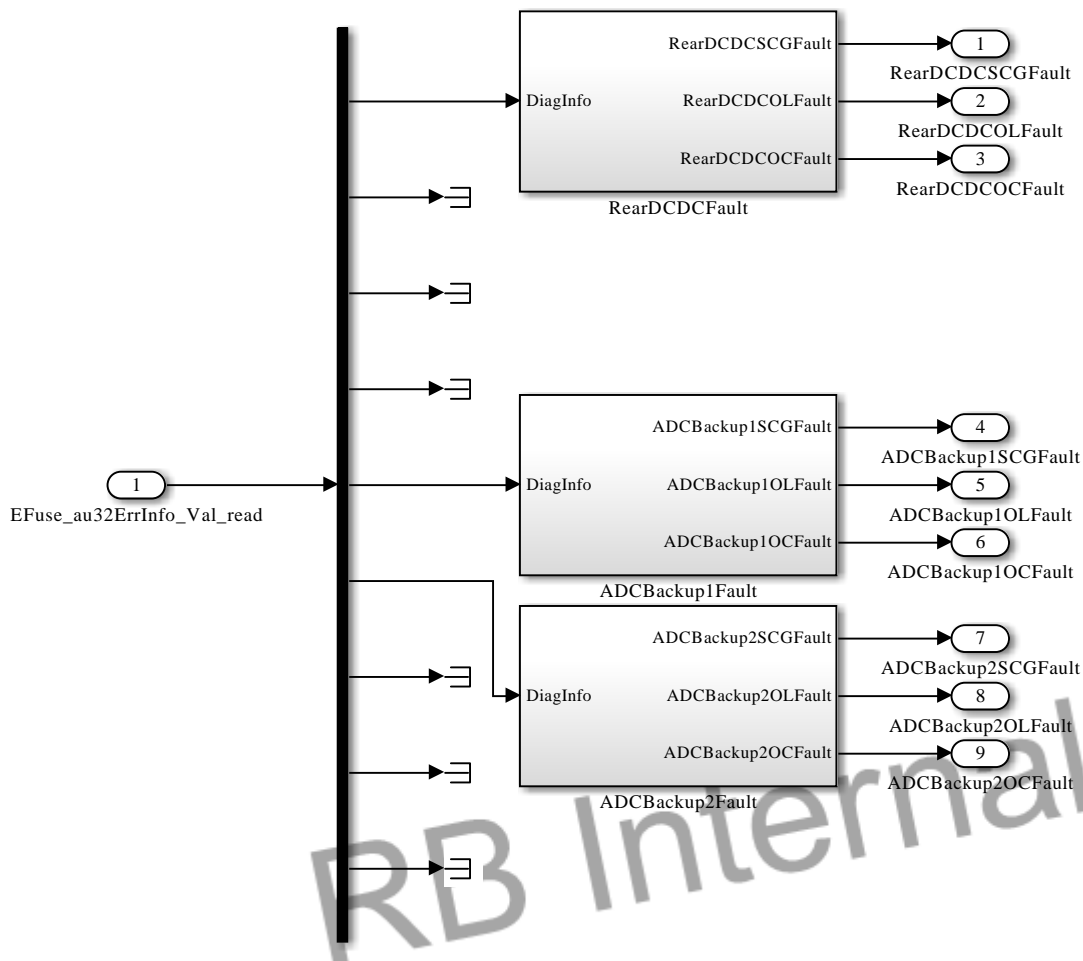


Figure 10 EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys [EFuse_ComCnvTx_EFuse_ComCnvTx_Runnable_10ms_sys]

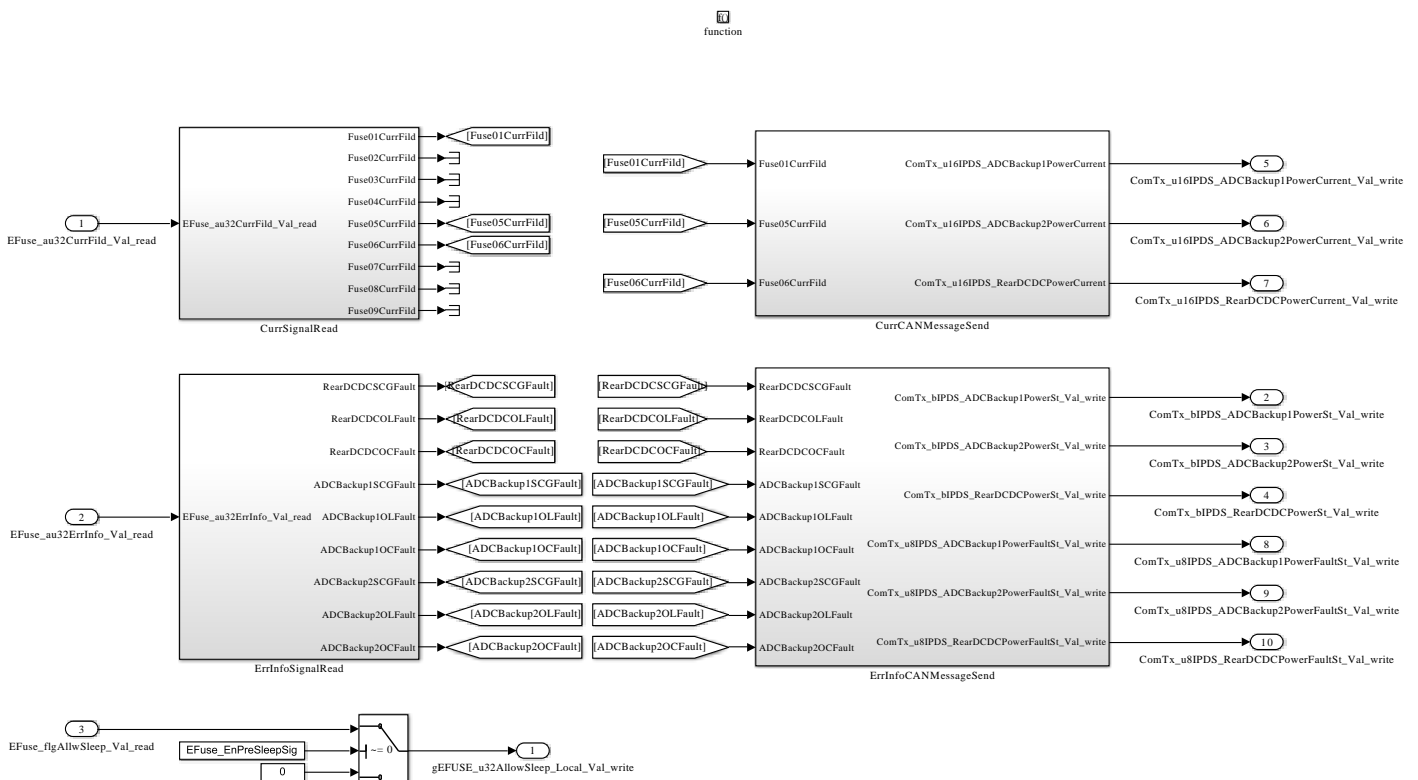


Table 1 Data Types for port interfaces [PortInterfaceDataTypes]

Port	AccessMode	Interface	DE	Datatype
EFuse_au32CurrFild	ImplicitReceive	EFuse_au32CurrFild	Val	uint32
EFuse_au32ErrInfo	ImplicitReceive	EFuse_au32ErrInfo	Val	uint32
EFuse_flgAllwSleep	ImplicitReceive	EFuse_flgAllwSleep	Val	boolean
gEFUSE_u32AllowSleep_Local	ImplicitSend	gEFUSE_u32AllowSleep_Local	Val	uint32
ComTx_bIPDS_ADCBackup1PowerSt	ImplicitSend	ComTx_bIPDS_ADCBackup1PowerSt	Val	boolean
ComTx_bIPDS_ADCBackup2PowerSt	ImplicitSend	ComTx_bIPDS_ADCBackup2PowerSt	Val	boolean
ComTx_bIPDS_RearDCDC-PowerSt	ImplicitSend	ComTx_bIPDS_RearDCDC-PowerSt	Val	boolean
ComTx_u16IPDS_ADCBackup1PowerCurrent	ImplicitSend	ComTx_u16IPDS_ADCBackup1PowerCurrent	Val	uint16
ComTx_u16IPDS_ADCBackup2PowerCurrent	ImplicitSend	ComTx_u16IPDS_ADCBackup2PowerCurrent	Val	uint16
ComTx_u16IPDS_RearDCDC-CPowerCurrent	ImplicitSend	ComTx_u16IPDS_RearDCDC-CPowerCurrent	Val	uint16
ComTx_u8IPDS_ADCBackup1PowerFaultSt	ImplicitSend	ComTx_u8IPDS_ADCBackup1PowerFaultSt	Val	uint8
ComTx_u8IPDS_ADCBackup2PowerFaultSt	ImplicitSend	ComTx_u8IPDS_ADCBackup2PowerFaultSt	Val	uint8
ComTx_u8IPDS_RearDCDC-PowerFaultSt	ImplicitSend	ComTx_u8IPDS_RearDCDC-PowerFaultSt	Val	uint8

3 Conversion forms

Table 2 Conversion forms

Name	Category	Unit	Contents int
CM_boolean	TEXTTABLE	NoUnit	(FALSE,0),(TRUE,1)

4 Ports and Interfaces

4.1 Sender Receiver Interface and Ports

4.1.1 Incoming

Table 3 Incoming

Port	Variable	Description	Type
EFuse_au32CurrFild	Val		ARRAY
EFuse_au32ErrInfo	Val		ARRAY
EFuse_flgAllwSleep	Val		VALUE

4.1.2 Outgoing

Table 4 Outgoing

Port	Variable	Description	Type
ComTx_bIPDS_ADCBackup1PowerSt	Val		VALUE
ComTx_bIPDS_ADCBackup2PowerSt	Val		VALUE
ComTx_bIPDS_RearDCDCPowerSt	Val		VALUE
ComTx_u16IPDS_ADCBackup1PowerCurrent	Val		VALUE
ComTx_u16IPDS_ADCBackup2PowerCurrent	Val		VALUE
ComTx_u16IPDS_RearDCDCPowerCurrent	Val		VALUE
ComTx_u8IPDS_ADCBackup1PowerFaultSt	Val		VALUE



Port	Variable	Description	Type
ComTx_u8IPDS_ADCBac- kup2PowerFaultSt	Val		VALUE
ComTx_u8IPDS_RearDCDCPower- FaultSt	Val		VALUE
gEFUSE_u32AllowSleep_Local	Val		VALUE

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II Production Note

Table 5 Configuration chosen for DocuNG

Parameter	Value
User	
Project Name	EFuse_ComCnvTx
Generator Mode	Continue on non-fatal error
Ascet graphic generator engine	UnifiedGraphicGenerator
Matlab graphic generator engine	UnifiedGraphicGenerator
DocType	Det-SwCalDoc
Condition Evaluation	true
Sorting Algorithm	Config Order
Title Page Logo	
Print Algorithms To Review	true
Support Fallback Language	true
Print List Of Converted System Constants	true
Include Function Information Chapter	true
Create Label Alias Mapping	false
HTML	false
PDF	true
PDF: Language	EN - English
PDF: Links in Graphics	true
PDF: Line Numbers	false
PDF: Confidential Level 2	true
PDF: Docu Security Option	false
EHB	false

Table 6 Version Information

Program Module	Version
Product	AEEE-Pro 2020.1.2