

SPI Drivers
For
AVR Microcontrollers

LOW LEVEL DESIGN Document

1. API specification

1.1 Type definitions

Name:	STD_TYPE
Type:	struct
Element:	<pre>uint8 SPI_InterruptEnable ; uint8 SPI_SPIEnable ; uint8 SPI_DataOrder ; uint8 SPI_MasterSlaveSelect ; uint8 SPI_ClockPolarity ; uint8 SPI_ClockPhase ; uint8 SPI_ClockRate ;</pre>
Description:	To make SPI configuration

2. Function definitions

Service name:	SPI_InitConfig
Syntax:	<code>uint8 SPI_InitConfig (SPI_CONFIG * spi);</code>
Parameters (in):	SPI_CONFIG
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	Local_Error
Description:	The function make the initialization of SPI
NUM:	

Service name:	SPI_Tranceive_Receive
Syntax:	<code>uint8 SPI_Tranceive_Receive (uint8 Copy_TData , uint8 * Copy_RData);</code>
Parameters (in):	Copy_TData, * Copy_RData
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	Local_Error

Description:	This function used to send and receive data
NUM:	

Service name:	SPI_SendByte
Syntax:	void SPI_SendByte(uint8 data);
Parameters (in):	data
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	NONE
Description:	This function used to send one byte
NUM:	

Service name:	SPI_ReceiveByte
Syntax:	uint8 SPI_ReceiveByte();
Parameters (in):	NONE
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	Value Of SPDR
Description:	This function used to receive one byte
NUM:	

Service name:	SPI_SendString
Syntax:	void SPI_SendString (uint8 *str);
Parameters (in):	*str
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	NONE
Description:	This function used to send string

NUM:	
-------------	--

Service name:	SPI_ReceiveString
Syntax:	void SPI_ReceiveString(uint8 *str);
Parameters (in):	*str
Parameters (in/out):	NONE
Parameters (out):	NONE
Return value:	NONE
Description:	This function used to receive string
NUM:	