

VS10X_VS4XX (EUR) Registers Definition

Reg addr	NAME	Symbol	Len	value range	default	descr
system parameters						
0	Device Dddress	ADDR	2	1~255	1	
1	ID	ID	2	1~65535		Reserved
2	RS232 rate	BAUD	2		1152	Unit:100bps
281	RS232 parameters	SYS_UOLCR	2	Form 1.1	0x0003	N,8,1
260	Transparent Transport port number	STT_NUM	2	0:Turn off	0	Startup defaults to 0
				1:LTE module		
				2:VMxxx		
				3:RS485		
259	Debug messages	DEBUG_MSG	2	0、1	0	Whether to output running information from RS232
280	Check the FTP parameters	CHK_FTPPARS	2	0、1	0	Whether to check the parameters file from the FTP server
282	RS485 sensor type	DS_SENSOR	2	0:NONE	0	
				1:Laser finder		
3	Sync RTC	RTC_SYNC	2	0: never	0	
				1: Mobile Networks		
				2:NTP server		
262	NTPserver addr	NTP_SEV	32	String, default www.zoyobj.com		
278	NTPPort Num	NTP_PORT	2	1~65535	6701	
279	NTP Correction	NTP_CONST	2	-32768~32767	0	Unit: minutes
4	State of the next startup	NEXT_SET	2	0:Normal	0	"Once" in 1 or 2 means only once, after which it automatically returns to "normal" 3 or 4 means that the device is forced to switch Send or Configuration mode.
				1:Send once		
				2: Configuration Mode(once)		
				3: Send		
				4:Configuration		
5	scan interval	INTE_SCAN	2	1~65535	10	Unit: minutes
6	Storage interval	INTE_STORE	2	1~65535	30	Unit: minutes
7	Send interval	INTE_SEND	2	1~65535	60	Must be a multiple of the scan interval
252	Multiple data sending schemes	MUL_SCH	2	0: Each XXX pieces of data	0	Only valid if the sending type is Email or FTP server, other sending methods send a single real time value at a time
				1:Each day		
				2:Each week		
				3:Each month		
253	Pieces num	MUL_COUNT	2	1~65535	10	Only valid when MUL SCH=0
254	Day of week Day of month	MUL_DAY	2	1~7 or 1~31	1	Only valid when MUL SCH=2/3
255	MUL Hour	MUL_HOUR	2	0~23	12	Valid when MUL SCH =1~3
256	Data delimiter	MUL_DELIM	2	0~255	8	ASCII code value
257	filename extension	MUL_EXT	4		txt	Three ASCII characters, such as TXT

8	RTC-YYMM	RTC_YM	2	BCD Code format		
9	RTC-DDHH	RTC_DH	2			
10	RTC-MMSS	RTC_MS	2			
11	Register for network timeout values	TIME1	2	0: Intelligent 1~65535	90	Reserved
12		TIME2	2	0~65535	10	
13	Work Mode	WSTAT	2	0: normal 1: Configuration	0	Unless NEXT_SET is set to 2 or 4, each boot is automatically set to 0
14	Send Type	SEND_TYPE	2	0: RS232&RS485	2	
				1: SMS		Mobile Short Message
				2: TCP-SEV		Mobile - TCP Server
				3: TCP-EMAIL		Mobile - EMail
				4: TCP-FTP		Mobile - FTP Server
				5: RFS (SPI)		Lora
				6: RFU (UART)		Extended RF module
15	Send Protocol	DAT_PRO	2	0: HEX 1: STR_1 2: STR_2	1	Common Control Communication Device Interface Description. PDF”
18	Data record number	RCD	4	Self-increment (parameter reset does not affect this value)		
20	Synchronized data record number		4	Dedicated to U disk data synchronization		
22	U disk synchronization method		2	0	1	Never synchronization
				1		Synchronization all datas
				2		Copy unsynchronized data
				3		Append a piece of data
SMS(Short Message) parameters						
38	Data center	RDC_PH1	12	cell phone number 1		
44	number	RDC_PH2	12	cell phone number 2		
50	SMS Centre Number	SMSC	12			
56	SMS Centre Number source	SMSC_SOU	2	0:Read from SIM card	0	
				1: User Settings		
Mobile phone network access parameters						
60	Access Point Name	GPRS_APN	16	China Mobile CMNET (default), China Unicom Uninet, 3GNET China Telecom CTNET		
TCP server parameters						
72	TCP Servdr addr	TCP_SEV	32	Default www.zoyobj.com		
88	TCP Port	TCP_PORT	2	1~65535	2825	
89	online time	TCP_ONLINE	2	0~65535	0	Unit: seconds
Email parameters(sender)						
95	SMTP Server	SMTP_SEV	32	Default smtp.126.com		
111	SMTP Port	SMTP_PORT	2	1~65535	25	
112	POP3 Server	POP3_SEV	32	Default pop.126.com		

128	POP3 Port	POP3_PORT	2	1~65535	110	
129	SMTP User	SP_USER	16	Use a third party software, such as Outlook, to test the correctness of the sender parameters		
137	SMTP Pass	SP_PASS	16			
145	Email addr	EMAIL_S	32			
161	Subject Title	SUBJECT	32			
Email parameters(receiver)						
179	Email addr	EMAIL_P	32			
FTP server parameters						
195	FTP Server addr	FTP_SEV	32	Default www.zoyobj.com		
211	FTP Port	FTP_PORT	2	1~65535	2821	
212	FTP User	FTP_USER	32			
228	FTP Pass	FTP_PASS	16			
236	Relative path	FTP_PATH	16	For example, "/ABC/" must end with a "/"		
244	File Name	FTP_FNAME	16			
Lora parameters						
283	Spreading Factor	RF_FCT	2	6~12	8	
284	Encoding Rate	RF_CR	2	1~4	2	
258	Bandwidth	RF_BW	2	0~9	7	
286	ChNum	RF_CH	2	0~15	7	Frequency=854+ChNum*2 MHz
287	Transmitted Power	RF_POW	2	0~15	10	
289		RF_CALMS	2	0~65535	1000	Unit: ms
Following are read-only registers						
344	Stack utilization	STK_PER	2	Unit %		
345~354	Task load	TASK_STK	20	Unit %		
355	Signal strength	SINGAL	2	Mobile phone network signal strength, 0~31 represents 0%~100%		
356		M_STA	2			
357	Input Voltage	VIN	2	Unit mV		
358	charging voltage	VSUN	2	Unit mV		
360	Device Temperature	TEMP	2	Unit 0.1℃		
361		DISK_SIZE	2			
362		DISK_FREE	2			
363		DISK_USED	2			
365~396	Channel data	CH01~CH32	64			
398		VM_ADDR	2			
400~458		VM_REG00~VM_REG58	118			

Form 1.1 RS232 parameters

Bits	Name	Value	DESC	Default
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Bit1:0	Data Len	00	5 bits	11
		01	6 bits	
		10	7 bits	
		11	8 bits	
Bit2	Stop bit	0	1	0
		1	2	
Bit3	Paroty Enable	0		0
		1	Enable parity	
Bit5:4	Check Bit	00	Odd Parity Check	00
		01	Even Parity Check	
		10	Always 1	
		11	Always 0	
Bit15:6				0000000000