Pinning ESP-12E Gateway			PCB# 012/00				redlabs.de	22.01.2018
Signal	Тур	Input / Output	Function	Pin	Pin Num	Pullup/ pulldown	Remark	Functionalblock
Reset		IN	RST		1	intern PU		RESET Button
ADC	analog	IN	ADC		2	Х	input range 0V->1V (10 bit ADC)	Analog input
X		IN	EN		3	10k PU PCB	Chip enable, active high	
PWM_B	PWM	OUT	GPIO16		4			
PWM_G	PWM	OUT	GPIO14		5			RGB LEDs
PWM_R	PWM	OUT	GPIO12		6			
433_Rx		IN	GPIO13		7	15k PD PCB		433MHz Transmiter / Receiver
433_Tx		OUT	GPIO15	config*	10	3k PD PCB	input of "XY-FST FS100A"	455IVII IZ TTATISITIILET / TVECEIVET
PCF_INT	open-drain	IN	GPIO2	config*	11	47k PU PCB		PCF8574 port expander interrupt output
OneWire Data	open-drain	IN/ OUT	GPIO0	config*	12	47k PU PCB		OneWire Bus / "Bootloader" Button
I2C_SCL	open-drain	IN / OUT	GPIO4		13	10k PU PCB		I2C / to PCF8574 / to connector
I2C_SDA	open-drain	IN / OUT	GPIO5		14	10k PU PCB		12C / to PCF6574 / to connector
UART_RXD	·	IN	RxD_0		15	х	Doubles des interfere	LIADT
UART_TXD		OUT	TxD_0		16	х	Bootloader interface	UART
					-			•
Supply:								
VCC3V			VCC		8		3.3V supply	Supply
GND			GND		9			Supply
-					-			
Unused Pins:								
х			CS0		17			
х			MISO		18			
х			IO9		19			serial Flash on ESP board
x			IO10		20			Seliai Flasii oli ESF boalu
Х			MOSI		21			
х			SCLK		22			
-	•	-			•	•		
*Config Pin	GPIO 0	GPIO 2	GPIO 15	3				
Flash Startup (Normal)	1	1	0				1 REST TXD 16	
UART Download Mode (Programming)	0	1	0				1 REST TXD 16 15 ADC RXD 15	
SD-Card Boot	0	0	1				3 CH DD ECD 125 CDIO5 14	
	•			_			4 GPI016 GPI04 13	
							5 GPI014 U1 GPI00 12	
							6 GPI012 GPI02 11	
							8 VCC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
							CS G G P M C S C S C	
							11	
							1 1 1 1 1	