

Family	Description	Opcode	Parameters
ESP0	NO OP	0	NONE
	VGA ANSI TERM OUT SINGLE CHAR	1 BYTE	SEND BYTE
	VGA ANSI TERM OUT NULL TERMINATED STRING	2 BYTE	RCV BYTE
	KEYBOARD IN SINGLE BYTE	3 INBYTE	Bytes are Little Endian
	Chars in Keyboard Buffer	4 INBYTE	
	Set display cursor	5 BYTE (0=off, 1=on)	
	Set Baud Rate	6 BYTE	
	Set Serial Mode	7 BYTE (8n1=0,8e1=1,8o1=2,7n1=3,7e1=4,7o1=5)	
	Serial TX Single char	8 BYTE	
	Serial TX Null Terminated String	9 BYTE	
	Serial RX	10 INBYTE	
	Chars in Serial Buffer	11 INBYTE	
	Play Null Terminated String	12 BYTE	
	Play Sound	13 attack	
	Set Volume	14 Volume	
	Set resolution	15 BYTE (see video resolutions tab)	
	Load Font	16 BYTE (See Fonts tab)	
	Clear	17	
	copyRect	18 source x source x source y source y dest x dest x dest y dest y width width height height	
	drawBitmap	19 x x y y length length	
	drawChar	20 x x y y Char	
	drawEllipse	21 x x y y width width height height	
	drawGlyph	22 x x y y width width height height index index length length byte byte byte byte	
	drawLine	23 x x y y end x end x end y end y	
	drawRectangle	24 x x y y end x end x end y end y	
	fillEllipse	25 x x y y width width height height	
	fillRectangle	26 x x y y end x end x end y end y	
	getPixel	27 x x y y B G R	
	invertRectangle	28 x x y y end x end x end y end y	
	lineTo	29 x x y y	
	moveTo	30 x x y y	
	scroll	31 x x y y	
	setBrushColor	32 Color	
	setLineEnds	33 LineEnds	
	setPenColor	34 Color	
	setPenWidth	35 Width	
	setPixel	36 x x y y	
	setGlyphOptions	37 blank bold doubleWid FillBackgro Invert Italic Underline	
	setPaletteltem	38 index b g r	
	setMouseCursor	39 index	
	setMouseCursorPosition	40 x x y y	
	enableSprites	41 enabled	
	removeSprites	42	
	setSpriteMap	43 index length length byte byte byte byte	
	setSpriteLocation	44 x x y y index	
	setSpriteVisiblity	45 index visible	
	DISCOVER	255 "E" "S" "P" "3" "2" "V" "1"	
ESP1	NO OP	0	NONE
	WiFi Modem TX Single char	1 BYTE	SEND BYTE
	WiFi Modem TX Null Terminated String	2 BYTE	RCV BYTE
	WiFi Modem RX	3 INBYTE	
	Serial TX Single char	4 BYTE	
	Serial TX Null Terminated String	5 BYTE	
	Serial RX	6 INBYTE	
	Serial TX Single char	4 BYTE	
	Serial TX Null Terminated String	5 BYTE	
	Serial RX	6 INBYTE	
MOUSE	MOUSE	255 "E" "S" "P" "3" "2"	
	DISCOVER		