/ Number	Address	Enable	ייי	Qall	IN 4	IN 3	IN 2	IN 1	0 NI	Calculated Hex							
Register Name	Register A	128 bit 7	64 bit 6	32 bit 5	16 bit 4	8 bit 3	4 bit 2	2 bit 1	1 bit 0	Auto Cal	Command in HEX	Comments					
1	0x01	1	0	0	0	0	0	0	1	0x81	0x06 0x01 0x81	A/V Out 1					
2	0x02	0	0	0	0	0	0	0	0	0x0	0x06 0x02 0x00	Not Used					
3	0x03	1	0	0	0	0	0	1	1	0x83	0x06 0x03 0x83	A/V Out 2					
4	0x04	0	0	0	0	0	0	0	0	0x0	0x06 0x04 0x00	Not Used					
5	0x05	0	0	0	0	0	0	0	0	0x0	0x06 0x05 0x00	Not Used					
6	0x06	1	0	0	0	0	1	0	1	0x85	0x06 0x06 0x85	A/V Out 3					
7	0x07	0	0	0	0	0	0	0	0	0x0	0x06 0x07 0x00	Not Used					
8	80x0	0	0	0	0			0	_		0x06 0x08 0x00	Not Used					
9	0x09	1	0	0	0	0	1	1	1	0x87	0x06 0x09 0x87	A/V Out 4					

Enter 0 / 1 pending requirement

Comments	0=Power Down 1=Enable	00=6dB 01=7dB 10=8dB 11=9dB	Mapping input to output. to output. Bit 0 or 1	Calculated Values - Do Not Change	Matrix Address [0x06h or 0x86h] [Output Register] [Control]

_		
IN	State	Default Usage / Comment
1	1	Video Input 1
2	Х	Not Used
3	2	Video Input 2
4	X	Not Used
5	3	Video Input 3
6	X	Not Used
7	4	Video Input 4
8	Х	Not Used
9	5	Audio Input 5 or Pi Audio Left Output if Link Set on Board
10	Χ	Not Used
11	6	Audio Input 6 or Pi Audio Right Output if Link Set on Board
12	PI	Video output from PI via the 3.5mm Jack Socket Loopback

FMS6501A can operate on both 3v3 and 5v supply.

MT88L70 can only operate at 3v3. A 5v version MT8870 is available on request.

All I/O levels are at 3v3 by default. Please be aware of these levels when driving the SQ inputs.

The 5v LDO regulator only goes to the Pi Header. Input voltage range 2.7v to 27v @ Max 2.5A

MT88L70	Function				4	5	9		8	9	0	*	#	А	В	С	
		1	2	3	7	۵,)	7	8	٥,		•	#	7	3	0	٥
Q1	D0/1	1	2 0	ო 1	0	1	0	1	0	1	0	1		1	0	1	0
Q1 Q2	D0/1 D1/2				_								0				
		1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
Q2	D1/2	1	0	1	0	1	0 1 1	1	0	1	0	1	0	1	0	1	(

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HEX	0X1	0X2	0x3	0x4	0X2	9×0	0×7	8X0	0X	Ο×Λ	OXB	ŏ	0×C	0XE	9X	0×0
DEC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	0

Header Pin	Old5	Function	Comments								
8		TXD	Serial TXD 3v3 Level								
10		RXD	Serial RXD 3v3 Level								
11		RTS	Serial RTS 3v3 Level								
3		SDA	I2C SDA 3v3 Level								
5	3	SCL	I2C SCL 3v3 Level								
27		E-SDA	E2 SDA								
28		E-SCL	E2 SCL								
37		DD0	DTMF MT88L70 Q1 3v3 Level								
19		DD1	DTMF MT88L70 Q2 3v3 Level								
33		DD2	DTMF MT88L70 Q3 3v3 Level								
31	•	DD3	DTMF MT88L70 Q4 3v3 Level								
29		DINT	DTMF MT88L70 INT 3v3 Level								
7		MCLR	Software Control Safe Reset								
13		PTT	PTT FET Control Output								
32		RX-SQ-1	RX Squelch or Matrix Control Input 1								
36		RX-SQ-2	RX Squelch or Matrix Control Input 2								
38		RX-SQ-3	RX Squelch or Matrix Control Input 3								
40		RX-SQ-4	RX Squelch or Matrix Control Input 4								
15	22	STATUS	Status LED Control Output								