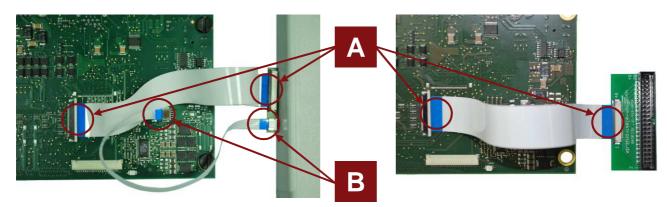
STKa28 Quick-Start Guide



- Connect display / adapter board to the STKa28
 - Use the provided 40-pin FFC cable to connect the display respective the adapter board to connector X22 of the STKa28. Make sure, the contacts of the FFC cable face towards the pc-boards on both ends (blue reinforced ends of FFC cable facing up).
- Connect the touch controller of the display box to the STKa28

 Use the provided 4-pin FFC cable to connect the touch controller to connector X8 of the STKa28. Make sure, the FFC cable is connected as shown in the image.



Connect Host PC and STKa28

Use the supplied null modem cable to connect COM1 of the STKa28 (X32B) to a serial port on your host PC (e.g. COM1 / ttyS0).

Run terminal emulator and configure serial port

Run your favourite terminal emulator on the host PC (we recommend *Tera Term Pro*) and configure the serial port as follows:

_	-			
Baud rate	Data bits	Parity	Stop bits	Handshake
115200	8	none	1	XON/XOFF

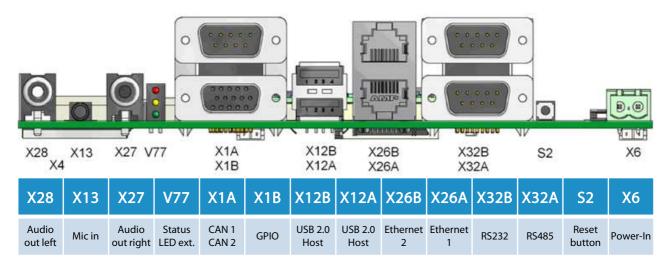
- Power-up STKa28
 - Verify the mains voltage required for the power supply, then connect it to connector X6 of the STKa28.
- Boot an operating system
 By default, the STKa28 is configured to boot from SD card.
 The supplied SD card contains a bootable image of the evaluation BSP for the operating system chosen with your order. If asked for login name and/or a password enter "root".



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External interfaces



DIP switch settings

On-board eMMC

		S	4		S 5					
		0 N 	DIP 3 4			-{	DIP 3 4			
DIP	1	2	3	4	1	2	3	4		
ON						note▶		N/A		
OFF	•		•	•			•			

SD card

	S4				S 5			
		□N 	DIP 3 4				DIP - 3 4	
DIP	1	2	3	4	1	2	3	4
ON				•	•	note	•	N/A
OFF	•	•	•					

USB Recovery

		S	4		S 5					
		Z	DIP 3 4				DIP 3 4			
DIP	1	2	3	4	1	2	3	4		
ON		•				note		N/A		
OFF			•	•						

GPIO mapping X1B and V77

Signal name at X1B	I ² C base address	I/O port	Direction
OUT0	0x20	100	0
OUT1		IO1	0
OUT2		102	0
OUT3		IO3	0
OUT4		104	0
OUT5		105	0
OUT6		106	0
OUT7		107	0
INO	0x21	100	
IN1		IO1	I
IN2		IO2	I
IN3		IO3	I
Signal name (internally used)		I/O port	Direction
USER_LED1		104	0
USER_LED2		105	0
LCD_BKL_ON		106	0
LCD_LVDS-ON		107	0

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Pinout plug connector X22 / adapter board

	Connector A22 / adapter board					
PowerView+						
Data Image	Signal	Type	Remark			
(X22)						
1	GND	Р	Ground			
2	GND	Р	Ground			
3	PowerView: NC	_	PowerView: 100 kR			
9	Data Image: ADJ	0	Data Image: LCD CONTRAST (PWM)			
4	PowerView/Admatec: VCC3V3	P	Supply			
•	Data Image: VCC5V		- ~ LL· \			
5	PowerView/Admatec: VCC3V3	P P	Supply			
	Data Image: VCC5V		эцргу			
6	PowerView/Admatec: VCC3V3 Data Image: VCC5V		Supply			
7	VCC3V3	Р	Supply			
8	PowerView: NC	_	PowerView: not connected			
***************************************	Data Image: VCC3V3	Р	Data Image: Supply			
9	DATA Enable	0	LCD_OE (22 R in series)			
10	GND	P	Ground			
11	GND	P	Ground			
12	GND	Р	Ground			
13	Blue 5	0	LCD_D5 (22 R in series)			
14	Blue 4	0	LCD_D4 (22 R in series)			
15	Blue 3	0	LCD_D3 (22 R in series)			
16	GND	Р	Ground			
17	Blue 2	0	LCD_D2 (22 R in series)			
18	Blue 1	0	LCD_D1 (22 R in series)			
19	Blue 0	0	LCD_D0 (22 R in series)			
20	GND	Р	Ground			
21	Green 5	0	LCD_D11 (22 R in series)			
22	Green 4	0	LCD_D10 (22 R in series)			
23	Green 3	0	LCD_D9 (22 R in series)			
24	GND	Р	Ground			
25	Green 2	0	LCD_D8 (22 R in series)			
26	Green 1	0	LCD_D7 (22 R in series)			
27	Green 0	0	LCD_D6 (22 R in series)			
28	GND	Р	Ground			
29	Red 5	0	LCD_D17 (22 R in series)			
30	Red 4	0	LCD_D16 (22 R in series)			
31	Red 3	0	LCD_D15 (22 R in series)			
32	GND	Р	Ground			
33	Red 2	0	LCD_D14 (22 R in series)			
34	Red 1	0	LCD_D13 (22 R in series)			
35	Red 0	0	LCD_D12 (22 R in series)			
36	GND	P	Ground			
37	GND	Р	Ground			
38	DCLK	0	LCD_SCLK (22 R in series) / 10 pF			
39	GND	P	Ground			
40	GND	P	Ground			