АВЛГ 648.20.00-01 Э3

V_BAT
V_PWR
VD1 SS14
VD2 LL4148
+V_CHRG
R18 1,0k
VD3 SS14
VD4 SS14
L1 22uH
V_RTC
R39 0
V_ARM
C2 100uF 16V
R36 100k
DA2 NCP1400ASN5011
VD5 SS14
C3 100uF 16V
C6 0,1 uF
DA3 BA033LBSG
C4 0,01 uF
C5 100uF 16V
C7 0,1 uF
FU1 3,15A
VD6 BAR43C
PWR_ON
KB_ON
R37 1,0k
R38 10k
C8 0,1 uF
R40 100k
R41 10k
C9 0,1 uF
+5V
XP1
цепь	КОН.
+5V	1
GND	2
NC	3
DS210
R46 1,0k
VT18 BC848B
C12 0,1 uF
VPWR_SENSE
CHRG_SENSE
VBAT_SENSE
I_SENSE
R49 100k
FU2 FSMD110
C14 0,1 uF
R51 160 k
C15 0,1 uF
C13 0,1 uF
R52 1,0k
C16 0,1 uF
R54 160 k
XP2
цепь	КОН.
ACC +	2
ACC -	1
PH02R
R55 1,0 R
R56 1,0 R
R57 1,0 R
R58 1,0 R
DA6-2 LM2904D
R60 10 k
C19 0,1 uF
DA6-1 LM2904D
KB_ON
V_ARM
R64 10 k
R65 10 k
R66 10 k
VT24 BC848B
C21 0,1 uF
nRESET
KBON_ST
R76 10 k
C24 0,01 uF
DD1 74HC164D
DD2 74HC164D
LED_DATA
LED_CLK
V_ARM
Q01 Q02 Q03 Q04 Q05 Q06 Q07 Q08 Q09 Q10 Q11 Q12 Q13 Q14 Q15 Q16 LED_3
R1 1,0k R2 1,0k R3 1,0k R4 1,0k R5 1,0k R6 1,0k R7 1,0k R8 1,0k R9 1,0k R10 1,0k R11 1,0k R12 1,0k R13 1,0k R14 1,0k R15 1,0k R16 1,0k R17 1,0k
VT1 VT2 VT3 VT4 VT5 VT6 VT7 VT8 VT9 VT10 VT11 VT12 VT13 VT14 VT15 VT16 VT17
R19 51R R20 51R R21 51R R22 51R R23 51R R24 51R R25 51R R26 51R R27 51R R28 51R R29 51R R30 51R R31 51R R32 51R R33 51R R34 51R R35 51R
SEG_1A SEG_1B SEG_1C SEG_1D SEG_1E SEG_1F SEG_1G SEG_1P SEG_2A SEG_2B SEG_2C SEG_2D SEG_2E SEG_2F SEG_2G SEG_2P SEG_LED
HL1 HL2 HL3 HL4 HL5 HL6 LSD8B23HS-20-PF
COM1 COM2 COM3
LED_COM1
LED_COM2
LED_COM3
ADC_PWRON
R47 1,0k
R48 1,0k
R50 1,0k
R53 1,0k
VT19 BC848B
VT20 BC848B
VT21 BC848B
VT22 BC848B
R42 1,0 k
R43 1,0 k
R44 1,0 k
R45 1,0 k
C11 0,1 uF
C10 100uF 16V
DA4 IRF7304
DA5 IRF7304
COM1
COM2
COM3
V_ADC
BEEP
R61 1,0k
R62 10k
VT23 BC848B
R59 39
BA1 KPMB-1216P02
VD7 LL4148
R69 200
VT26 IRLML6302
VT28 IRLML2402
C22 100uF 16V
C23 0,1 uF
L2 22uH
VD9 SS14
VD8 SS14
C18 100uF 16V
CHRG
R77 200
R78 10 k
HL7 HL8 HL9
SEG_LED
XS2
КОН.	цепь
1	RS-BOOT
2	RX
3	TX
4	GND
5	K1
6	K2
7	SDA
8	SCL
9	+3,3V
10	SDAT
11	SCLK
12	CS
2432-12TS
R63 1,0 k
RS-BOOT
RX0
TX0
JTAG_RTCK
JTAG_TDO
I2C_SDA
I2C_SCL
LED_DATA
LED_CLK
P031
XS1
цепь	кон.
TXD	1
GND	2
RXD	3
GND	4
V_ADC	5
+5V	6
.	7
GND	8
MJV0808KX15
C27 0,1 uF
C28 0,1 uF
TX1
RX1
RS-BOOT
V_ARM
R87 10 k
R88 10 k
R89 10 k
SSEL0
P031
XS4
цепь	кон.
ROW1	8
ROW2	7
ROW3	6
COL1	5
COL2	4
COL3	3
ON-OFF	2
ON-OFF	1
2432-08TD
R93 1,0 k
R94 1,0 k
R95 1,0 k
R96 1,0 k
R97 1,0 k
R98 1,0 k
R99 1,0 k
R101 1,0 k
KBD_0
KBD_1
KBD_2
KBD_3
KBD_4
KBD_5
KB_ON
V_PWR
R67 10 k
R68 10 k
R70 10 k
R71 10 k
R72 10 k
R73 10 k
C49 0,1 uF
C50 0,1 uF
DD3 LPC2131FBD64 MCU ARM7
TXD0 RXD0 I2C_SCL I2C_SDA ZB_SCK ZB_MISO ZB_MOSI SSEL0 TXD1 RXD1 ZB_RST ZB_SS ZB_ANT ZB_ATT RS-BOOT ZB_IRQ CHRG_SENSE ADC_PWRON LED_COM1 LED_COM2 LED_COM3 CHRG PWR_ON ZB_RXEN
KBON_ST VBAT_SENSE VPWR_SENSE I_SENSE P031 nRESET
P0.0/TxD0/PWM1
P0.1/RxD0/PWM3/EINT0
P0.2/SCL0/CAP0.0
P0.3/SDA0/MAT0.0/EINT1
P0.4/SCK0/CAP0.1/AD0.6
P0.5/MISO0/MAT0.1/AD0.7
P0.6/MOSI0/CAP0.2
P0.7/SSEL0/PWM2/EINT2
P0.8/TxD1/PWM4
P0.9/RxD1/PWM6/EINT3
P0.10/CAP1.0
P0.11/CAP1.1/SCL1
P0.12/MAT1.0
P0.13/MAT1.1
P0.14/EINT1/SDA1
P0.15/EINT2
P0.16/EINT0/MAT0.2/CAP0.2
P0.17/CAP1.2/SCK1/MAT1.2
P0.18/CAP1.3/MISO1/MAT1.3
P0.19/MAT1.2/MOSI1/CAP1.2
P0.20/MAT1.3/SSEL1/EINT3
P0.21/PWM5/CAP1.3
P0.22/CAP0.0/MAT0.0
P0.23
P0.25/AD0.4/AOUT
P0.26/AD0.5
P0.27/CAP0.1/MAT0.1/AD0.0
P0.28/CAP0.2/MAT0.2/AD0.1
P0.29/CAP0.3/MAT0.3/AD0.2
P0.30/EINT3/CAP0.0/AD0.3
P0.31(Output only)
RESET
VDD VDD VDD VDDA VREF VSS VSS VSS VSS VSSA VBAT
P1.16/TRACEPKT0
P1.17/TRACEPKT1
P1.18/TRACEPKT2
P1.19/TRACEPKT3
P1.20/TRACESYNC
P1.21/PIPESTAT0
P1.22/PIPESTAT1
P1.23/PIPESTAT2
P1.24/TRACECLK
P1.25/EXTIN0
P1.26/RTCK
P1.27/TDO
P1.28/TDI
P1.29/TCK
P1.30/TMS
P1.31/TRST
KBD_0 KBD_1 KBD_2 KBD_3 KBD_4 KBD_5 BEEP LED_DATA LED_CLK LED_3 JTAG_RTCK JTAG_TDO JTAG_TDI JTAG_TCK JTAG_TMS JTAG_TRST
XTAL1(In)
XTAL2(Out)
RTXC1(In)
RTXC2(Out)
C32 22 pF
ZQ1 11.0592 MHz
C34 22 pF
C40 100uF 16V
C51 100uF 16V
C52 C53 C54 C55 C56 C57 C58 0,1 uF
DD5 SP3232E
TXD0 TXD1 RXD0 RXD1
T1IN T2IN R1OUT R2OUT
T1OUT T2OUT R1IN R2IN
TX0 TX1 RX0 RX1
RS-232
C1+ C1- V+ VCC C2+ C2- V- GND
C35 0,1 uF
C36 0,1 uF
C38 0,1 uF
C39 0,1 uF
C41 0,1 uF

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Разработ.	Еловский			23.04.07	АВЛГ 648.20.00-01 Э3
Провериł	Рыбкин			23.04.07	Модуль управления. Схема электрическая принципиальная
Т.контр.					
Нач.сект.	Орлов			23.04.07	"Меркурий 330"
Н.контр.					
Утв.	Будин С.А.				"ИНКОТЕКС"

Лит. | Масса | Масштаб
Лист 1 | Листов 1

Инв. № подл. | Подп. и дата | Взам. инв. №