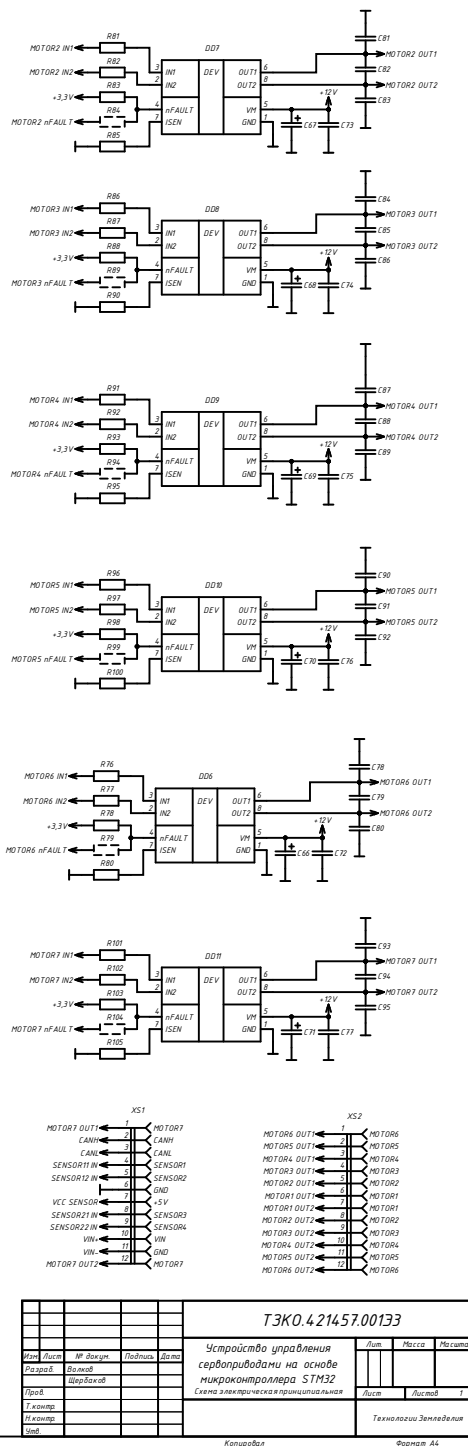
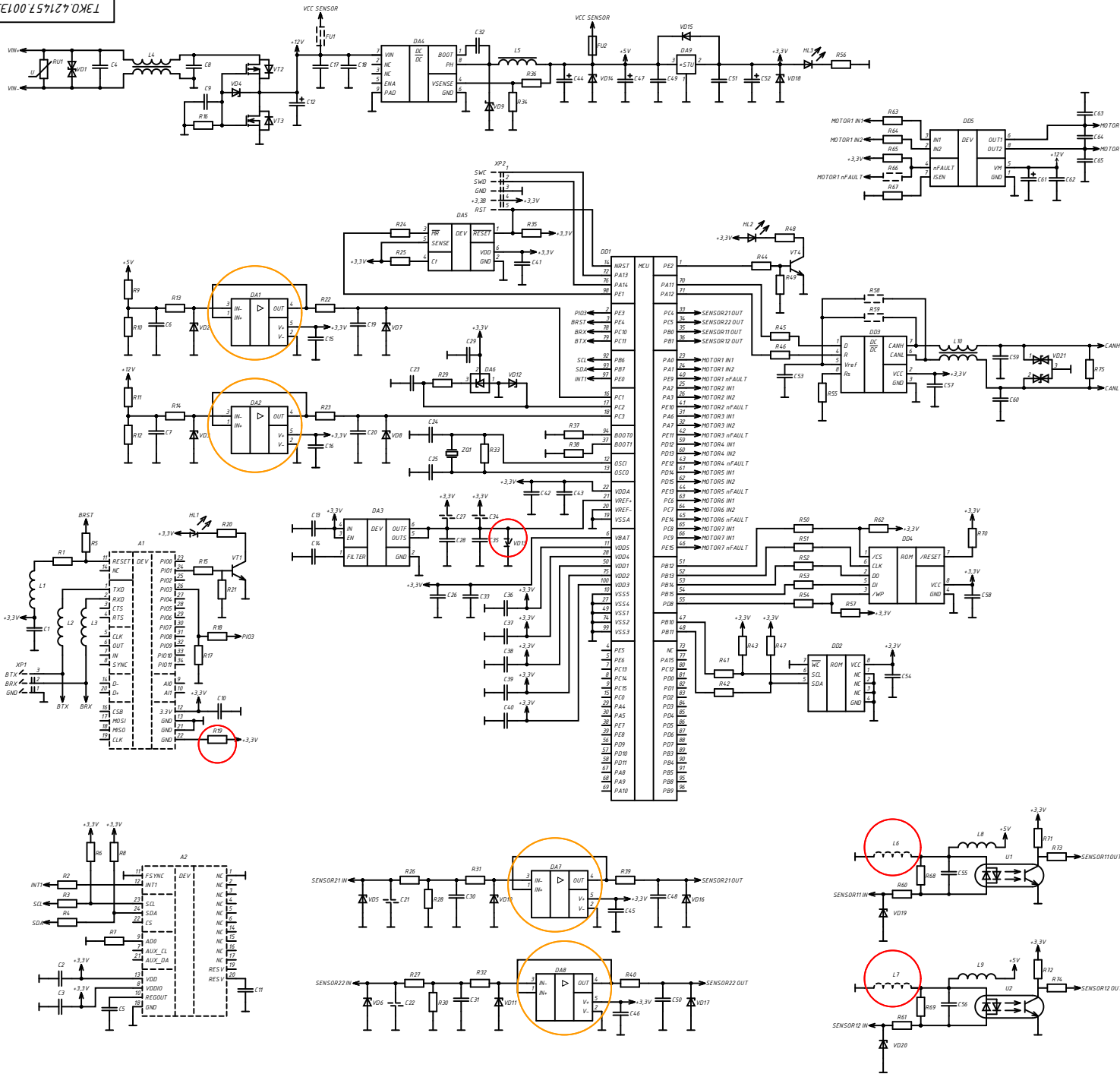


EE100'LS71270XEL



ТЗКО.4.21457.00133

Устройство управления
сервомоторами на основе
микроконтроллера STM32

Схема электрическая принципиальная

Изм.	Лист	ИП	Дизайн	Подпись	Дата
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Технология: Электроника

Формат: A4

Comment	Description	Designator	Footprint	Label	Quantity
HC-06	34 pin 3.3V not installed	A1		Device_Bluetooth_HC06_Not_Installed	1
ICM-20948	24 pin 3.3V not installed	A2		Device_Gyroscopes_Accelerometer_ICM20948_Not_Installed	1
Capacitor_Fixed	2 pin	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C13, C14, C15, C16, C17, C18, C19, C20, C23, C24, C25, C26, C28, C29, C30, C31, C32, C33, C35, C36, C37, C38, C39, C40, C41, C42, C43, C45, C46, C48, C49, C50, C51, C53, C54, C55, C56, C57, C58, C59, C60, C62, C63, C64, C65, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95		Capacitor_Fixed	80
Capacitor_Polarized	2 pin	C12, C44, C47, C52, C61, C64, C67, C68, C69, C70, C71		Capacitor_Polarized	11
Capacitor_Fixed_Not_Installed	2 pin not installed	C21, C22, C27, C34		Capacitor_Fixed_Not_Installed	4
OPA348ADBVR	5 pin 3.3V	DA1, DA2, DA7, DA8		Microcircuit_Analog_Operational_Amplifier_OPA348ADBVR	4
MAX6708BAUT12-T	6 pin 3.3V	DA3		Microcircuit_Analog_Reference_Voltage_Source_MAX6708BAUT12-T	1
TPS54300DAR	8 pin + pad from 1.2V to 3V	DA4		Microcircuit_Analog_DC_DC_Converter_TP5430	1
TPS3808G33DBVR	6 pin 3.3V	DA5		Microcircuit_Analog_Power_Monitor_TPS3808G33DBVR	1
TL431	3 pin	DA6		Microcircuit_Analog_Reference_Power_Supply_TL431	1
LM1117MP	3 pin from 5V to 3.3V	DA9		Microcircuit_Analog_Linear_Stabilizer_LM1117MP	1
STM32F103VET6	100 pin 3.3V	DD1		Microcircuit_Digital_Microcontroller_STM32VET6	1
MQ4256E-FM61P	8 pin 3.3V	DD2		Microcircuit_Digital_Memory_EEPROM_M24256E-FM61P	1
VP230	8 pin 3.3V	DD3		Microcircuit_Digital_Transceiver_UART_CAN	1
W25Q64FVSSQ	8 pin 3.3V	DD4		Microcircuit_Digital_Memory_Flash_W25Q64FVSSQ	1
AT8236	8 pin 1.2V	DD5, DD6, DD7, DD8, DD9, DD10, DD11		Microcircuit_Digital_Motor_Driver_AT8236	7
Fuse_Not_Installed	2 pin	FU1		Fuse_Not_Installed	1
Fuse	2 pin	FU2		Fuse	1
Diode_Light_Emitting_Not_Installed	2 pin not installed	HL1		Diode_Light_Emitting_Not_Installed	1
Diode_Light_Emitting	2 pin	HL2, HL3		Diode_Light_Emitting	2
Inductor	2 pin	L1, L2, L3, L8, L9		Inductor	5
Inductor_Cored_Doubles	4 pin	L4, L10		Inductor_Cored_Doubles	2
Inductor_Cored	2 pin	L5		Inductor_Cored	1
Inductor_Not_Installed	2 pin not installed	L6, L7		Inductor_Not_Installed	2
Resistor_Fixed	2 pin	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R60, R61, R62, R63, R64, R65, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R80, R81, R82, R83, R85, R86, R87, R88, R90, R91, R92, R93, R95, R96, R97, R98, R100, R101, R102, R103, R105		Resistor_Fixed	96
Resistor_Fixed_Not_Installed	2 pin not installed	R58, R59, R66, R79, R84, R89, R94, R99, R104		Resistor_Fixed_Not_Installed	9
Resistor_Varistor	2 pin	RU1		Resistor_Varistor	1
EL3H4	4 pin	U1, U2		Optocoupler_EL3H4	2
5.0SMDJ36CA	2 pin	VD1		Diode_Suppressor_5.0SMDJ36CA	1
Diode_Zener	2 pin	VD2, VD3, VD4, VD5, VD6, VD7, VD8, VD10, VD11, VD12, VD14, VD16, VD17, VD18, VD19, VD20		Diode_Zener	16
Diode_Schottky	2 pin	VD9		Diode_Schottky	1
Diode_Junction_Not_Installed	2 pin	VD13		Diode_Junction_Not_Installed	1
Diode_Junction	2 pin	VD15		Diode_Junction	1
SM24CANB-Q2HTG	3 pin	VD21		Diode_CAN_Array_Suppressors_SM24CANB-Q2HTG	1
BC817	3 pin	VT1, VT4		Transistor_Bipolar_NPN_BC817	2
STD3SP9LLF6	3 pin	VT2		Transistor_Field_Effect_Low_Power_Induced_Channel STD3SP9LLF6	1
FD87030BL	3 pin	VT3		Transistor_Field_Effect_Low_Power_Induced_Channel FD87030BL	1
Connector_Bluetooth_Not_Installed	3 pin not installed	XP1		Connector_Bluetooth_Not_Installed	1
Connector_STLINK_No_6_Installed	5 pin not installed	XP2		Connector_STLINK_No_6_Installed	1
Connector_Left	12 pin	XS1		Connector_Left	1
Connector_Right	12 pin	XS2		Connector_Right	1
Quartz_Resonator	2 pin	XT1		Quartz_Resonator	1