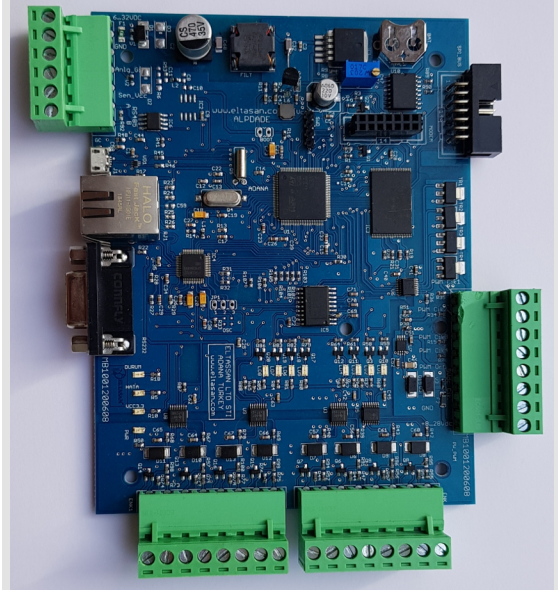


ELT CONTROL

ELT-SM-01

TECHNICAL SPECIFICATIONS

- ARM Cortex-M4 Microcontroller IC 32-Bit 180 MHz.
- Power Input: 8...32 Vdc
- Analog Single Input: 4...20 mA
- Single port 10/100 Mb/s Ethernet port
- RTC IC Clock/Calendar
- USB 2.0 high-speed/full-speed device/host.
- Single RS-485/RS-422 Transceivers Port.
- Up to 1Mbps, True RS-232 Transceivers Port.
- SPI Bus Port for other interface board and different board. Digital & analogue I/O with PCB.
- RS-232 Transceivers Port.
- Magnet Isolated Digital Input. For pulse counter and quadrature. (incremental) encoder input application(4 channel , A,B).
- 4 channel IC/OC/PWM and high speed output.
- Two TTL RS232 port and control output interface (for GSM/GPRS modem, Bluetooth and WIFI module).
- 4 Channels Digital input on Main PCB (Fast encoder)
- 1 Modbus RS-485 interface
- Compliant to IEC 61131-2; Type 1, 2, 3 Characteristics for 24-V Isolated Digital Inputs
- High Input-Voltage Range With Reverse Polarity Protection
- High Data Rates: Up to 4 Mbps
- Selectable 8..28 Vdc output, 4 Channel Digital output on Main PCB (PWM output) (magnetic isolation)
- 1GB Data Flash memory
- Additional WiFi + Bluetooth
- GSM/GPRS/GPS Modem PCB will be provided as an addon-PCB



USAGE AREAS

- Special design machine control
- System digitization
- Machine status and fault records
- Connection and data logging with different types of sensors

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ELT CONTROL

ELT-TDI-01

ELT DIGITAL INPUT

TECHNICAL SPECIFICATIONS

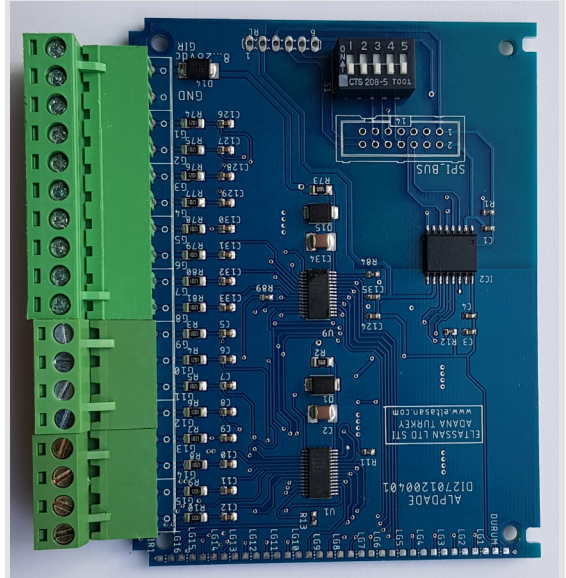
- 8 digital input
- High Input Voltage - up to 34 V
- Under voltage Indication
- Output Drivers for External Status LEDs
- Over temperature Indication
- Operation at temperatures from -40°C to 125°C
- High Input Voltage - up to 34 V for digital input.
- SPI BUS with magnetic isolation
- Compatible with ELT-SM-01

ELT-TDO-01

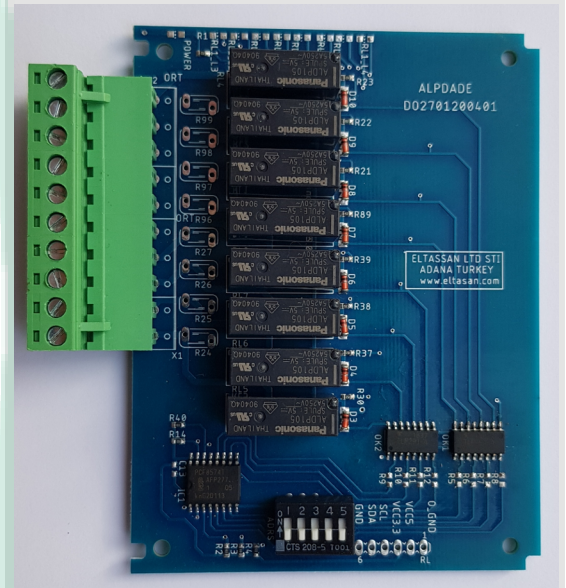
ELT DIGITAL OUTPUT

TECHNICAL SPECIFICATIONS

- 8 digital relay output
- Nominal switching capacity: 5A 277V AC
- High insulation resistance: Creepage distance and clearances between contact and coil: Min. 6 mm
- 750Vrms for one minute Break down voltage between open contacts
- Contact Material: Silver Nickel
- I2C BUS with magnetic isolation
- Compatible with ELT-SM-01



Ability to read all types of digital output sensors and dry contact inputs



Providing medium and high current digital control thanks to the relay it contains

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ELT CONTROL

ELT-AAI-01

ELT ANALOG INPUT

TECHNICAL SPECIFICATIONS

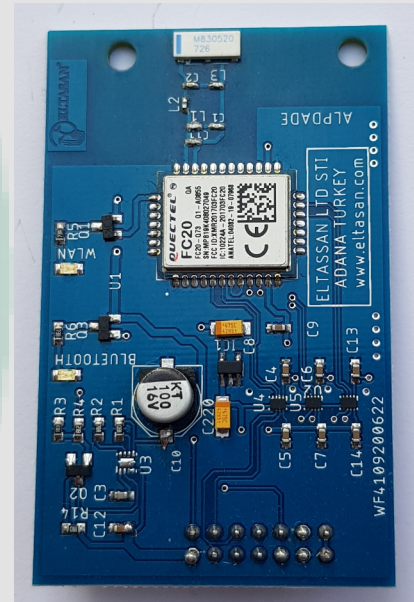
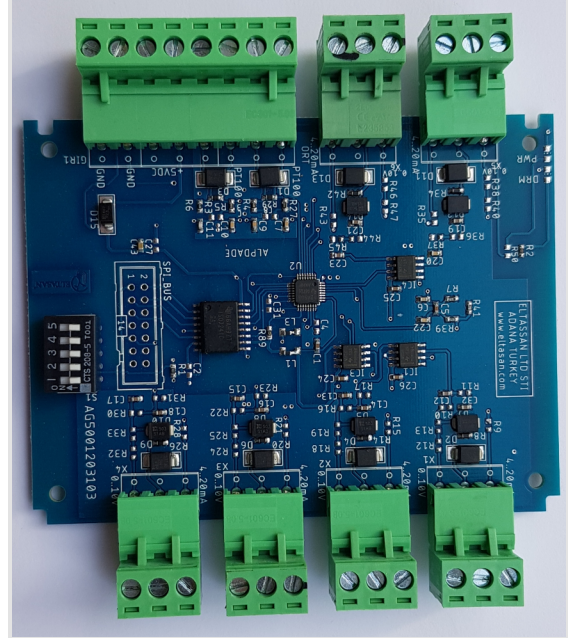
- 2 cables 2 channels PT100 input
- 0..5 volt , 0...10Volt, 4..20mA ve 0...20mA, 6 channel Analog input
- Low-Noise, Highly Integrated, 4-kSPS, 24-Bit, Delta-Sigma ADC with PGA
- Internal Temperature Sensor
- Extended Fault Detection Circuits
- Self Offset and System Calibration
- SPI BUS with magnetic isolation
- Compatible with ELT-SM-01

ELT-QBW-01

ELT BLUETOOTH WI-FI MODUL

TECHNICAL SPECIFICATIONS

- Ultra-compact Wi-Fi & BT module
- Support BT 4.2*
- Support IEEE802.11a/b/g/n/ac standards
- Easier soldering and testing process with LCC package
- Stable and reliable SDIO communication interface
- Fast time-to-market: simple design minimizes design-in time and development efforts
- Function: Wi-Fi 2.4 GHz + 5 GHz & BT 4.2*
- WLAN Standard: 802.11a/b/g/n/ac BT
- Modulation Mode: BPSK, QPSK, CCK, 16QAM, 64QAM, 256QAM
- 802.11a: Max 54Mbps
- 802.11b: Max 11Mbps
- 802.11g: Max 54Mbps
- 802.11n: Max 150Mbps
- 802.11ac: Max 433Mbps BT 4.2*: Max 24Mbps



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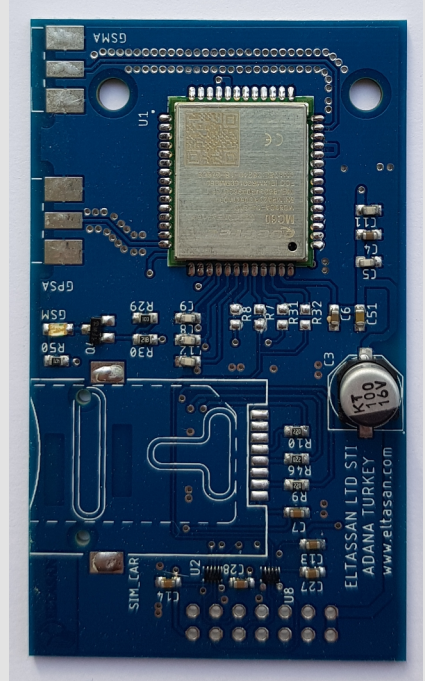
ELT CONTROL

ELT-QG-01

ELT GSM-GPRS-GPS MODULE

TECHNICAL SPECIFICATIONS

- Quectal MC60 module
- Multi navigation constellation: GPS/ GLONASS/ Galileo/ BeiDou/ QZSS
- GNSS receiver channels: 99 acquisition/ 33 tracking channels
- Powerful AGPS functions: Autonomous AGPS EASYTM/ Offline AGPS EPOTM/ Online AGPS QuecFastFix
- Built-in LNA for better GNSS sensitivity (-167dBm@Tracking): able to use passive GNSS antenna without the need of any extra LNA
- Enhanced GNSS features: SDK command/ AIC/ LOCUS/ GLP
- GSM quad-band: 850/ 900/ 1800/ 1900MHz
- Multi internet protocols: TCP/UDP/FTP/PPP/HTTP/NITZ/NTP/PING/ HTTPS/TCP/SSL/MQTT
- Support Voice, SMS, QuecFOTA®, DSSS and QuecOpen®
- Support Bluetooth SPP & HFP-AG profiles (BT 3.0) and GATT/FMP*/PXP* profiles (BT 4.0)
- Gps özelliği:GPS L1 Band Receiver (1575.42MHz)
- GLONASS L1 Band Receiver (1601.7MHz): C/A Code
- Galileo E1 Band Receiver (1575.42MHz): C/A Code
- BeiDou B1 Band Receiver (1561.098MHz): C/A Code
- QZSS L1 Band Receiver (1575.42MHz)



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