

Smarten-Up BOSCH Alarm Panels



BOSCH AMAX Series Alarm Panels are one of the most reliable alarm panels around the world. Considering the fact that the remote-control boards of BOSH Alarm Panels are over-priced and difficulties in effective data monitoring, PIOTAR developed "Quakka" a special ARM based IoT card.

Quakka board provides the ability to users to connect the USB port on BOSH Alarm Panels and enables the access to all parameters from technical service settings to user settings for calibration and monitoring purposes.



CPU	: ARM Cortex-7
Memory	: 512 MB DDR3
Connection	: 2G (Default) – 4G (Optional)
Onboard Ethernet	: 10/100M
USB Port	: 1xUSB 2.0
Size	: 69x48 mm

PIOTAR also developed "Quakka" as a universal IoT Board which enables the consumers to monitor industrial products, read data and make analysis. Quakka also contains a connection facility for expandable readable and writeable data storage areas via Modbus, RS485, USB and Serial Port.

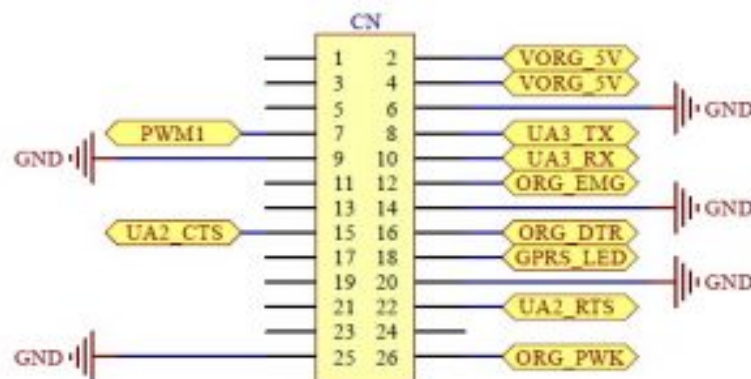
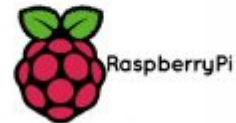
PIOTAR "GPRS SHIELD"

Initially the "PIOTAR GPRS Shield" has been developed by PIOTAR for GPRS based communication layer of Raspberry PI and Orange PI but also it is a product that proved itself among TTL level microprocessor boards by operating as a POC Communication Layer successfully.

PIOTAR GPRS Shield was designed to be full compatible to any expansion ports of PI Boards and the installation became very user friendly among PI Boards Series with the connector structure on both two sides.



for all your connectivity
"PIOTAR GPRS SHIELD"



Please see below for the description of PIN structure,

- **PWM1** : connected to RI pin of the module,
- **UA2_CTS** : connected to CTS pin of the module,
- **VORG_5V** : connected to the 5 Volt power from PI board.
- **UA3_TX** : connects the TX pin of PI board to the RX pin of module.
- **UA3_RX** : connects the RX pin of PI board to the TX pin of module.
- **ORG_EMG** : controls the Emergency Off pin of module. (Over the HIGH to EMERG_OFF LOW – Transistor)
- **ORG_DTR** : controls Data Terminal Ready Pin of the module. (Direct Connection)
- **GPRS_LED** : Led Screen of the PI Board (HIGH to LED_ON)
- **UA2_RTS** : controls the RTS pin of module. (Direct Connection)
- **ORG_PWK** : controls PWRKEY pin of the module. (Over the HIGH to PWRKEY_LOW – Transistor)

Smart Check-up

Studies on health clearly revealed the fact that the early diagnosis can prevent illness and consequent possible sudden deaths. It is particularly important to run tests like Blood Pressure and Insulin then transmit the results to health units for further evaluation especially in chronic disease tracker systems.

In response to that need, PIOTAR developed a Smart Check-up System which enables the responsible doctor to track the patient by transmitting the test results from insulin and blood pressure devices to a server for further analysis.



Technical Specifications;

- Medication reminder via TV Connection,
- Doctor's Orders Reminder via TV Connection,
- Physical Exercise and Diet Reminders via TV Connection,
- Receiving the insulin test results and transmission to server,
- Receiving the blood pressure test results and transmission to server,
- Wide range of connection interfaces (WIFI-GSM-ETHERNET)

Intelligent Gate Control Systems

It has always been a challenge to control the building entrances and garage gates. Numerous problems still exist in conventional remote controllers such as; broken remote controls, running out batteries, provision of many remote controllers to multiple people, challenges of engaging the controller in use of third parties.

In order to overcome these kinds of challenges mentioned above PIOTAR provides an ultimate solution for gate controlling systems with many features which can be facilitated over smart mobile phones.



Technical Specifications;

- Monitoring the vehicle entrance with indoor camera,
- Real time video footage with indoor camera (feature of Plus Model)
- Commanding the gate to open or close and monitor with worldwide access
- Sharing the authorization with guests for a scheduled timeframe with Guest Mode
- Building maintenance fee administration (Building Admin Model)
- Building notice board administration (Building Admin Model)
- Commanding multiple doors and gates
- GSM/GPRS connection options
- WIFI/ETHERNET connection options