UMIO-6510

Saving Cost, Design Time and Integration Effort

UMIO-6510

Overview

GZtech UMIO-6510 USB universal I/O board leverages the "Plug and Play" capability defined in the USB 2.0 bus specification. The board requires one USB interface within the personal computer and provides variant I/O channels. All channels are controlled in a high performance micro controller for simplified communication access through USB interface.

Real Time monitoring

UMIO-6510 provides real time monitoring with battery backup which ensures that UMIO-6510 reports to host controller exactly when, and in which order a sequence occurs.   The battery backup memory ensures that this information is retained regardless of the power conditions, the host controller can maintain a permanent record of operation and resume from exactly where is was interrupted should a power outage occur.

Security Key Protection

UMIO-6510 security key provides an encrypted link between your application program and the system.   Each UMIO-6510 is pre-programmed with an unchangeable and undiscoverable Security Key code that is unique to the user.   You can use this unique security code to ensure that your program only operates with your hardware.

Stereo amplification

UMIO-6510 provides a stereo amplifier with 5W rms per channel audio output.

Reliability

Every UMIO-6510 that we sell goes through a fully tested routine that ensures the quality and reliability of this product.

Ordering Information

ITEM	CONTENT
UMIO-6500C	UMIO evaluation kit
UMIO-6500	Universal multi-I/O module
UMIO-6510	Universal multi-I/O module

Specification Highlight

Communication ports
- USB 1.1 and USB 2.0 compatible host interface
- 2 serial channels for ccTalk or RS-232
- IIC extension port

I/O ports
- 16 off Inputs (5V CMOS thresholds with 5V pull-ups)
- 8 off Switch inputs with power-down monitoring
- 24 off Outputs (open drain up to 250mA each)
- 4 off Outputs (open drain up to 3A each)
- 8 off Outputs (5V CMOS)
- 8 off Bi-directional lines (5V CMOS IP or 250mA OP)
- 1 off Current sensed +12V output
- 1 off DIL switch

Audio
- 20W class D amplifier

Security
- Security Key function to protect against piracy
- Processor with real time clock and battery backup(greater than 60 days hold up time)
- Monitoring of eight switch inputs while powered down

Indicators
- +3.3V, +5V, +12V and +24V supply LEDs
Four programmable LEDs

Connectors
- USB type B connector
- General I/O: 40 way, 34 way, 16 way and 10 way headers
- Hard disk-type power connector (+5V and +12V input only)
- Communication ports: 26 way header
- Audio in: 3 way 3.5mm jack socket

Memory
- 512K x 8 in two independent battery-backed SRAM
- 8K x 8 Bit EEPROM

Supported operating systems
- Microsoft® Windows® 2000/XP/XPe/CE
- Linux

Power supply
- Regulated +5V DC input, +24V delay output supply

Dimensions
- 75mm x 211mm (2.95" x 8.3")

About GZ TECH

We are member of Microsoft Embedded Partner, has more than 150 years' combined engineering experiences in Industrial and Gaming Solutions, especially X86 and ARM series processors with Windows XP/XPe/CE, and Linux support.   Our focus is to provide complete system level solutions for the customers to develop reliable and cost effective embedded products such as Industrial controller, HMI, POS, Kiosk, Gaming, Medical and Advertisement solutions.