



DigiBird Technology Co., Ltd.

UniManager Central Controller

Card Manual V1.0

Control Cards

Introduction

Control card serves to execute commands and manage functional cards.



Interface

Interface	Description
LAN	Support 10Base-T/100Base-TX/1000Base-T ethernet
SUBNET	Supports 10Base-T/100Base-TX ethernet
USB1/USB2	USB2.0 HOST
RST	Restart control card

Indicators

Indicators	Description
NET	Green light indicates connection status. Keeps on indicates connected, off indicates disconnected. Yellow light indicates data exchange. Flashing indicates data exchange in progress, off indicates no data exchange.
RUN	Running status. Keeps on indicates running well, off indicates failure
RDY	System status. Keeps on indicates system initiating completed, off indicates initiating in progress or abnormal.
M/S	Indicates main controller or slave controller is working.
ALM	Alarm. Keeps on indicates system failure, off indicates running well.

Specifications

Items	Description	
Parameters	CPU	A72x2+A53x4 +Mali x4, 64 bit Cortex-A72 1.8GHz
	OS	Linux4.4.194
	RAM	3.8GB
	ROM	32GB
	Power	15W
	Temperature	0-50°C (Working), -55 - 70°C (Storage)
	Humidity	10%-80% (Working), 10%-90% (Storage)
Physical	Card Type	Blade
	Net Weight	0.23kg
	Dimension	200mm ×161.2mm ×25.1mm (L×D×H)

Functional Card

Introduction

Functional card can be configured with COM port, I/O port, IR and Relay.



Features

- Supports RS232/RS422/RS485
- Supports I/O ports
- Supports IR output
- Supports Relay ports

Specifications

Item	Description	
Interface	COM1	Supports RS232/RS422/RS485; Max data rate 115,200Kbps; Supports 24V output, max power 10W
	COM2/COM3/COM4	Supports RS232/RS422/RS485; Max data rate 115,200Kbps;
	IO Input	Internal clamping voltage 5.5V Maximum low level input voltage: 0.8V Minimum high level input voltage: 2V Default is pull-up, resistor 51K, voltage 5V Can be configured as pull down, pulldown resistor 51K <i>Note: All ports should be configured to pull-up or pull down as a whole. Does not support be configured individually.</i>
	IO OUT	Internal clamping voltage 5.5V Low level output voltage: Typical: 0V Maximum: 0.5V High level output voltage Typical: 5V Minimum: 4.5V Maximum output load: 5V/10mA
	IR OUT	Infrared or serial output port Maximum IR output rate: 2MHz; 115.2k One-way serial output: 0-5V Maximum baud rate 115.2k
Parameters	RELAY	N.O. Relay Rated parameter: 1A /125AC, 2A / 30VDC
	Power	7W
	Temperature	0-50°C (Working), -55 - 70°C (Storage)

	Humidity	10%-80% (Working), 10%-90% (Storage)
Physical	Card Type	Blade
	Net Weight	0.23kg
	Net Weight	200mm×161.2mm×25.1mm (L×D×H)

HDMI Switching Card

Introduction

HDMI switching card can work as 4x4 matrix switcher, which supports seamless switching.



Features

- Supports 4x HDMI inputs and 4x HDMI outputs;
- With HDMI signal indicators;
- Support up to 4k 30Hz;
- Supports embedded audio input and output
- Supports EDID
- Comply with HDCP
- Auto adjust resolution

Specifications

Item	Description	
Interface	Input	HDMI Type A x4
	Output	HDMI Type A x4 Supported output resolution 1280x720p60 1600x1200p60 1920x1080p60 1440x900p60 1024x768p60 1680x1050p60 1280x1024p60 1920x1200p60 1360x768p60 3840x2160p30 1366x768p60 4096x2160p30
Parameters	Input qty	4
	Output qty	4
	Power	15W
	Temperature	0-50°C (Working), -55 - 70°C (Storage)
	Humidity	10%-80% (Working), 10%-90% (Storage)
Physical	Card Type	Blade
	Net Weight	0.23 Kg
	Net Weight	200mm×161.2mm×25.1mm (L×D×H)



Support 4x4 matrixes only for the card, expand scale by cascading is not supported.