

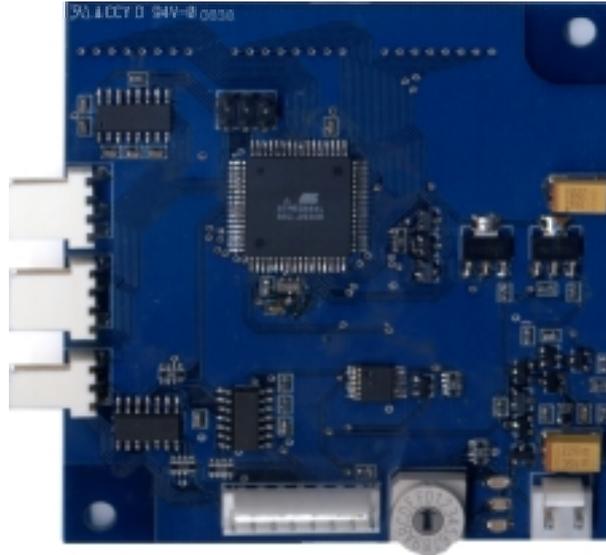


Aardvark Embedded Solutions

Pescara Multi Protocol Bill Acceptor Converter Unit

Product

Description:



What does the Protocol Converter do for me?

This protocol converter is designed for those machine manufacturers and operators who have host systems (games) which are designed to use bill acceptors using a particular interface but who now wish to use a new bill acceptor that is only available with a different interface.

Typically, the Pescara Bill Acceptor Converter will be useful where the implementation of the host system cannot be changed, either because the development team has moved on or the system is running on hardware that cannot be easily changed.

How does the Protocol Converter fit into my machine?

The Pescara Bill Acceptor Converter is available in an 8cm square package. The unit has 4 data connectors: 2 x RS232 interfaces, a cctalk interface and a Mars Vend Serial interface, of which the appropriate two will be used in your particular application.

All you will have to do is to make up appropriate leads to the host system and your chosen new acceptor, and also provide 12v-24v power for the converter itself.

To select the required conversion, the converter board is fitted with a 16 position rotary switch, which is used to choose the interface / protocol required.

So how *standard* are the host systems protocols that you have implemented?

The protocols that we have implemented are carefully designed and implemented such that your machine should be unable to detect any differences between your existing bill acceptor and this protocol converter.

For **cctalk**, we test the protocol converter against the Money Controls "cctalk compliance program". Our converter *exactly* imitates the MCL Lumina, achieving a score of 100% compliance with even the more esoteric commands fully implemented.

For **Ardac 2**, we use the MCL Proclaim utility to ensure that our converter *exactly* imitates the existing MCL Ardac 2 / WACS acceptor.

For **Mars Vend Serial**, we exactly meet the timing requirements shown in the MEI technical documentation.

For **GPT V2.2 Enhanced Serial**, we use a protocol test tool to ensure that our converter *exactly* imitates the existing GPT Argus D acceptor.

It's not quite what I am after. Do you make any *other* protocol converters?

We have a number of similar converter boards in existence today and are very happy to produce ones for your custom requirements.

Our typical converter boards are used to interface bill acceptors to systems / games, but we are happy to build *any* custom converter.

Here is a table of the possible converters that we can *easily* make, marked up to show which ones are already in standard production (an as such only require the appropriate firmware to be installed) and which require electrical interfaces to be designed.

AES Protocol Converter Matrix

Host System ↓ Acceptor →	cctalk	ID003	MDB	Ardac 2	GPT	Any Other
cctalk		⊙	❖	✘	✘	
ID003	✘		❖	✘	✘	
MDB	❖	❖		❖	❖	
Ardac 2	⊙	⊙	❖		✘	
GPT	⊙	⊙	❖	✘		
Mars Vend Serial	⊙	⊙	❖	✘	✘	
Opto-Isolated Pulse Serial	❖	⌘	❖	⌘	⌘	
NV4 Pulse Serial	❖	❖	❖	❖	❖	
NV4 Binary	❖	❖	❖	❖	❖	
Any Other						

Key:

- ⊙ This indicates that this is a part of the Pescara product, available today.
- ✘ This indicates an extension to the Pescara product firmware, which would be easy to make if there were sufficient demand.
- ⌘ This indicates one of Aardvark's other products, which is also available today.
- ❖ This indicates a product that, although the interface is well known by Aardvark technical staff, would require us to develop a custom converter hardware platform, due to the different electrical interface requirements.

AES is happy to consider the development of *any* protocol converter board.

Using the hardware and software building blocks that we have, the turn-around time for the development of a custom board is likely to be much shorter than you may think.

The software modules we use are those in everyday use on our Milan / Paylink credit board, so you can have a high level of confidence that they have been well-proven on many thousand units in the field.

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