



Aardvark Embedded Solutions

Torino Electronic Data Collector,

Product code TOEDDCF

Product Description:



What is the Torino Electronic Data Collector?

The Torino Electronic Data Collector (EDC), from Aardvark Embedded Solutions Ltd. (AES) is connected to the BACTA port of an AWP (fruit machine) and maintains an accurate count of all coins / notes inserted and paid out, a security function for the cabinet doors, and a log of player interaction and significant events.

It is designed to be periodically interrogated by a handheld device, usually at the same time as the cash that the AWP has taken is collected.

The unit is enclosed in a rugged steel case and can be stored anywhere inside the AWP cabinet.

What does the unit do?

The unit provides the following specific functions:

- Record total coins and notes paid in.
- Record total coins paid out.
- Logs events reported by the AWP.
- Provides an audible alarm if the cabinet doors are opened.
- Uses security keys to control alarms.
- Logs summaries of player activity.
- Reports the electronic machine identity.

Coins / Notes Paid In and Out

Bacta messages notify the Torino EDC each time a coin / note is paid in or out. All these different events are independently totalled in non volatile memory by the Torino EDC, and the current totals can be easily retrieved by a handheld unit.

AWP Events

Bacta messages notify the Torino EDC of a range of events such as transient or permanent problems with its peripherals. A list of the last 400 of these messages is logged to non volatile memory, together with the exact time at which it occurred.

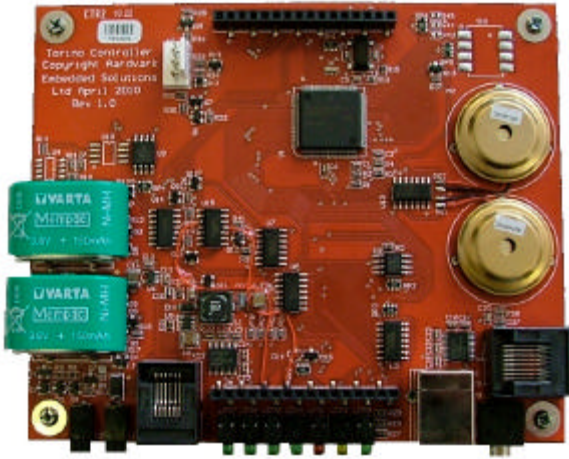
Security

IButton keys that each contain a unique key are created by AES or the estate manager and distributed in any fashion.

When the Torino EDC sees a door open it will log an appropriate AWP event into the log and go into an alarm state and stay there until it sees a valid IButton key.

While in an alarm state, it will sound a buzzer and it will not acknowledge Bacta messages - the AWP will go into "Dataport Alarm" if the door is closed.

If the machine is not powered up, the fact of the door opening will still be written into the log.



Player Activity

With the increasing use of multiple game AWP's there is useful information to be gained from looking at how the various games are played.

To this end, the Torino EDC attempts to identify how individual players use the machine, and maintains a log of the behaviour of the last 2000 players.

Obviously there is no direct way to identify a change of player, but the Torino EDC assumes that a 30 second or more gap in machine plays is probably due to one player giving way to another.

For each player the Torino EDC identifies which different priced games have been played, how many plays were made at that price and how much was paid out in winnings. It also identifies whether the *last* thing the player did was to play the game or to collect winnings.

Machine Identity

Part of the Bacta specification includes sending out the exact details of the AWP game. These are recorded by Torino EDC and passed over to the handheld device.

What is this Handheld device?

Handheld devices are small computers that are programmed by you and are connected by an RS232 cable to either a 3.5mm stereo jack, or to a rewired USB socket. (Which is **not** a USB connection to a laptop.)

They are used to collect the data stored on a Torino EDC for two purposes. Firstly, they provide an instant report as to the money that is expected to be found in the AWP at the time it is collected, and secondly they transfer the log information back to head office where it can be analysed.

What if this not quite what I want?

The current functionality of the Torino EDC represent that we expect to be suitable for most people.

If you have a slightly different requirement, we at AES are quite willing to customise the software and hardware.

Aardvark Embedded Solutions Ltd.
25 Fletcher Street
Stockport
SK1 1DY
United Kingdom

www.aardvark.eu.com

Telephone: +44 (0)161 285 6877
Facsimile: +44 (0)870 460 3318
E Mail: sales@aardvark.eu.com