



UNIVERSAL CARD LINK



MANUAL

Notice and Disclaimer of Liability Concerning the Use of AAMA Standards

AAMA standards, recommended practices, and guides of which the document contained herein is one, are developed through a standardization committee process. This process brings together volunteers representing varied viewpoints and interests to achieve consensus on standardization issues. While the AAMA administers the process and establishes rules to promote fairness in the development of consensus, it does not independently test, evaluate, or verify the accuracy of any information or the soundness of any judgments contained in AAMA Standards.

The AAMA disclaims liability for any personal injury, property or other damages of any nature whatsoever, whether special, indirect, consequential or compensatory, directly or indirectly resulting from the publication, use of, or reliance on AAMA Standards. The AAMA also makes no guaranty or warranty as to the accuracy or completeness of any information published herein.

In issuing and making AAMA Standards available, the AAMA is not undertaking to render professional or other services for or on behalf of any person or entity. Nor is the AAMA undertaking to perform any duty owed by any person or entity to someone else. Anyone using this document should rely on his or her own independent judgment or, as appropriate, seek the advice of a competent professional in determining the exercise of reasonable care in any given circumstances.

The AAMA has no power, nor does it undertake, to police or enforce compliance with the contents of AAMA Standards. Nor does the AAMA list, certify, test, or inspect products, designs, or installations for compliance with this document. Any certification or other statement of compliance with the requirements of this document shall not be attributable to the AAMA and is solely the responsibility of the certifier or maker of the statement.

Updating of AAMA Standards

Users of AAMA standards, recommended practices, and guides should be aware that these documents may be superseded at any time by the issuance of new editions. An official AAMA Standard at any point in time consists of the current edition of the document. In order to determine whether a given document is the current edition, consult appropriate AAMA publications on the AAMA website at www.coin-op.org or contact the AAMA at the address listed below.

Patents

The AAMA does not take any position with respect to the validity of any patent rights referenced in, related to, or asserted in connection with an AAMA Standard. The users of AAMA Standards bear the sole responsibility for determining the validity of any such patent rights, as well as the risk of infringement of such rights, and the AAMA disclaims liability for the infringement of any patent resulting from the use of or reliance on AAMA Standards.

AAMA adheres to the policy of the American National Standards Institute (ANSI) regarding the inclusion of patents in American National Standards (“the ANSI Patent Policy”), and hereby gives the following notice pursuant to that policy:

NOTICE: The user’s attention is called to the possibility that compliance with an AAMA Standard may require use of an invention covered by patent rights. AAMA takes no position as to the validity of any such patent rights or as to whether such patent rights constitute or include essential patent claims under the AAMA Patent Policy.

Law and Regulations

Users of AAMA Standards should consult applicable federal, state, and local laws and regulations. AAMA does not, by the publication of its standards, recommended practices, and guides, intend to urge action that is not in compliance with applicable laws, and these documents may not be construed as doing so.

For Further Information

All questions or other communications relating to AAMA Standards and all requests for information on AAMA procedures governing its standards development process, including information on the procedures for requesting Formal Interpretations, for proposing Tentative Interim Amendments, and for proposing revisions to AAMA standards during regular revision cycles, should be sent to:

American Amusement Machine Association
Attn: *Standardization Committee*
450 E. Higgins Road, Suite 201
Elk Grove Village, Illinois 60007
information@coin-op.org

Revision Published : November 5, 2014

Original Published by: American Amusement Machine Association (AAMA) October 2014
450 E. Higgins Road, Suite 201, Elk Grove Village, Illinois 60007
(847) 290-9088 information@coin-op.org www.coin-op.org

Written by: Tina Schwartz, AAMA

Developed by: Adam Ambrosius, AAMA Standardization Committee Chairman
AAMA Standardization Committee Members & Contributing Industry Manufacturers and Suppliers



UNIVERSAL CARD LINK (UCL) SYSTEM

PURPOSE

- To harmonize the coin-operated amusement industry for a common/standard Card Reader interface as identified in this document.
- Having a standard to which game manufacturers of Video, Redemption and Card Systems adhere eliminates confusion during installation.
- To ensure quicker setups and miswiring of debit card applications, making both games and card systems less prone to potential damage during installation.

While highly recommended, it is ultimately the responsibility of the individual manufacturers to comply with this standard. Complying with this standard allows the manufacturer to advertise that it meets, accepts and inter-operates with other systems that are in compliance and will be recognized by the AAMA and its Standardization committee.

DEFINITION AND FUNCTIONALITY

- Pin 1.** +12v- Supply to Card System = Minimum of 2A available for the card systems and a Max of 3A.
- Pin 2.** Player 1/Coin 1 - input to the game PCB. This pin is used for games with only one coin input.
- Pin 3.** Prize Meter/Ticket Notch 2- is connected to the Ticket Notch line between the game PCB and ticket dispenser in standard redemption games, or can be connected to a prize meter line for a merchandiser or crane game. **(Only used when game have two ticket dispensers.)** This line can be used by card systems for monitoring purposes. **Not Used if the game doesn't have this output.**

- Pin 4.** Coin Meter 1 - is connected to the coin meter 1 output from the game PCB and can be used by card systems for monitoring purposes.
Not used if the game doesn't have this output.
- Pin 5.** Ticket Run/Enable 2- is connected to the ticket run line between the game PCB and ticket dispenser in standard redemption games. **(Only used when game have two ticket dispensers** This is commonly used for systems using paperless or E-ticket.
Not Used if the game doesn't have this output.
- Pin 6.** Prize Meter/Ticket Notch 1- is connected to the Prize or Ticket Meter output from the game PCB and can be used by card systems for monitoring purposes.
Not used if the game doesn't have this output.
- Pin 7.** Coin Inhibit/Enable- is connected to the Coin or Note Inhibit/Enable output from the Game PCB and is used where the game has this feature for disabling any payment. This is normally for states like New Jersey that limit the amount of money that can be inserted at one time.
- Pin 8.** Ticket Run/Enable 1 - is connected to the ticket run line between the game PCB and ticket dispenser in standard redemption games. This is commonly used for systems using paperless or E-ticket. **Not Used if the game doesn't have this output.**
- Pin 9.** Ground- is connected to the common Ground connection, the same ground as the Game PCB.

IMPORTANT NOTE

This connector has been designed for use in many different types of games and from all different game manufacturers; because of this, some pin connections will not be populated in all games. The pins that are used will depend on the type of game and the specific inputs and outputs that the game and the manufacturer uses. Along with incorporating this Universal Card Link into your products, you will **NEED** to apply the “UCL” symbol decal near and on the connector or coin mech/door area to allow the customer to easily recognize that their game can be quickly hooked up to a debit card system.

LOGO USAGE GUIDELINES

- Create "UCL" symbol decals based on below guidelines.
- Apply the "UCL" symbol decal near the connector or coin mech/door to allow the customer to easily recognize that their game can be quickly hooked up to a card system.

UNIVERSAL CARD LINK | UCL • LOGO USAGE GUIDELINES

COLOR LOGO



standard



reverse

BLACK & WHITE LOGO



standard



reverse

CLEAR AREA SURROUNDING LOGO



MINIMUM SIZE



1.75"

MODIFICATION DON'TS • *The mark cannot be altered, cut apart, separated, or otherwise distorted in perspective or appearance.*



do not distort or stretch



do not use different colors

HOUSING, WIRING AND TERMINALS

Game Manufacturer's Housing, Wiring and Terminals to use:

Molex 9-pin housing: 03-09-1093 OR 1094

Wire Gauge and Terminals: 02-09-1104 (14-20 gauge wire) or 02-09-1119 (18-22 gauge wire)

Debit Card System Manufacturer's Housing, Wiring and Terminals to use:

Molex 9-pin housing: 03-09-2092

Wire Gauge and Terminals: 02-09-2103 (14-20 gauge wire) or 02-09-2118 (18-22 gauge wire)

**9-PIN MOLEX
03-09-1093 OR 1094
FEMALE TERMINALS:
22-24 GA: 02-09-1119
14-20 GA: 02-09-1104**

MINIMUM REQUIREMENTS
ARE SHOWN IN BOLD TEXT

1.	+12V
2.	PLAYER 1/COIN 1
3.	PRIZE METER/TICKET NOTCH 2
4.	COIN METER 1
5.	TICKET RUN/ENABLE 2
6.	PRIZE METER/TICKET NOTCH 1
7.	COIN INHIBIT/ENABLE
8.	TICKET RUN/ENABLE 1
9.	GROUND

DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	NAME	DATE	UNIVERSAL CARD LINK
	DRAWN SK	7/31/14	
MATERIAL	COMMENTS:		SCALE: 1:1
FINISH	DO NOT SCALE DRAWING		
DWG. NO.		REV.	SHEET 1 OF 1