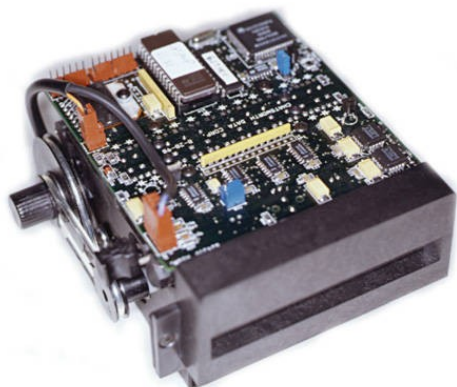


Contact a representative at
(818) 341-9200 or
info@chatsworthdata.com

- Reads up to 27 inches per second
- Self adjusting threshold for each data channel
- 12 or 14 Data channels
- Accepts various paper thickness



Features and Options

Paper Path: A simple, locking hinge pin can be installed at either end of the ACP-2100/2116 toggle assembly as determined by the available envelop within the terminal.

Locking the pin secures the upper toggle assembly in place for scanning. Releasing the hinge pin allows the upper assembly to open for complete access to the paper path for cleaning of the optic lens, removing paper chafe and preventative maintenance procedures.

12 or 14 Data Channels Available: The ACP-2100 is configured with 12 channels at .250 inch channel spacing. The ACP-2116 is configured with 14 data channels at 5 mm channel spacing.

Cased Model: The ACP-2100/2116 is available in a cased model for stand-alone applications. The cased model

The ACP-2100/2116 is the latest design to be developed by Chatsworth Data Corporation to serve the Public Gaming Industry. The ACP (Accessible Card Path) design was specifically designed for a gaming terminal, incorporating a unique feature which allows easy access to the card path and optic lens for clearing obstructions and performing preventative maintenance on the unit.

A single latch releases the upper "toggle" portion of the unit so that it can be rotated up and away from the body of the transport, thus exposing the entire card path and optic lenses.

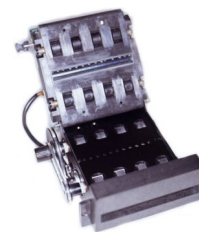
The option of a FLASH EPROM, incorporates additional flexibility, supporting the dynamic down loading of executable code to the ACP-2100/2116 via your communications network. Complete programming of the FLASH EPROM takes less than 20 seconds.

The ACP-2100/2116 is a low cost solution when integrating an OMR into any application terminal or workstation. The most common use for the ACP design is as a Lottery play slip reader and for "receipt" validation. Other applications include "Tote" system terminals, Sports Gaming, "Keno" type games, as well as many Point Of Sale applications.

The ACP-2100/2116 utilizes "Visible Red" illumination that reads black or blue marks made with a pencil, ballpoint or felt-tip pen and pre-printed marks. Background printing must be in the visible red range. "Infra Red" illumination is available as an option for only black pencil marking with colored background printing.

RS-232C Serial communications is standard on the APC-2100. USB (Universal Serial Bus) is an available option.

Chatsworth Data Corp. has taken the most common features of the Lottery and Totalizator designs and incorporated them into the ACP-2600 unit, giving the application developer the greatest flexibility without the development costs associated with design and testing of a totally "custom" unit. The design concept utilized by the ACP provides a base unit that can be quickly modified to meet specific firmware, electrical, and mechanical requirements, resulting in a low cost OMR.



CHATSWORTH
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Paper Path:

The ACP-2100/2116 Reader has a paper path that is easily accessible for clearing jams and cleaning the optic head. A simple, self-locking hinge pin secures the upper unit in place and when removed allows the upper assembly to open for complete access to the paper path. The ACP-2100/2116 is designed to open from either end, depending on the design clearances of the terminal.

Paper Sensors:

The ACP-2100/2116 reader can support both an entry throat sensor and an exit chute sensor, if required by the terminal application. The exit sensor is optional.

Scan Area:

14 data channels at 5 mm spacing. (ACP-2116)
12 data channels at .25 inch (ACP-2100)

Timing Track Alignment:

In-line (data marking areas between leading and trailing edge of the timing mark).

Offset (data marking areas between the trailing edge of one timing mark to the leading edge of the next).

Timing Track Selection:

Select top (right hand) or bottom (left hand) edge of the form for the active timing track.

Form Marking:

Blue or black pencil
Blue or black pen, ballpoint or felt-tip
Pre-printed marks

Interface:

RS-232C asynchronous at 14.4 K baud.

Illumination Options:

Dual row RED (660 nm) or infrared LED's (950 nm). RED LED's are standard.

Green LED's (565 nm) may be installed in the timing channels to support reading RED timing tracks.

The ACP-2100/2116 reader can be configured with dual row illumination, if required by the terminal application. Single row illumination is standard.

Flash EPROM (Optional):

The ACP-2100/2116 reader supports an optional FLASH EPROM (32 KB x 8) to allow in-system programming of the reader firmware.

Transport Speed:

The ACP-2100/2116 reader is designed to operate at 20 inches per second, yielding 200 dot per inch resolution. An option is available to operate at approximately 27 ips at a resolution of 150 dots per inch. This faster transport speed may be useful when resolution is not critical.

Mounting Arrangements:

The ACP-2100/2116 reader is configured with 4 threaded mounting inserts at the base of the transport for securing the unit to the terminal (standard). Optional mounting configuration can be accommodated.

Motor Voltage:

The ACP-2100/2116 can be configured with either 12 VDC or 24 VDC motor.

Media Formats:

The ACP2100/2116 reader is designed to read GTECH style betslips and receipts but firmware can be developed to read nearly any typical lottery or gaming slip format. Various types of Hollerith style barcodes can be accommodated.

Electrical:

The ACP-2100/2116 reader logic PCB contains a MC68HC11 microcontroller I.C., a 32K by 8 EPROM, a 32K by 8 static RAM, an address latch, two analog multiplexers, 5 analog amplifier I.C.'s, 15 light emitting diodes, 15 photo-transistors, and a motor driver/controller chip. Surface mount devices are used wherever possible to minimize the board area required for the design.

Power Requirements:

Voltage	Purpose
+5VDC	(well regulated) at approx. 500 ma.
+12VDC	At 500 ma. with motor running, 6.0 amps peak (for about 20 mS) when motor is started or stopped
+24VDC	At 250 mA with motor running, 3.0 amps peak (for about 20 mS) when motor is started or stopped.

Power Connector:

Pin	Purpose
1	Motor Voltage (+12 or +24VDC)
2	Motor Voltage (+12 or +24VDC)
3	Motor Ground
4	Motor Ground
5	Logic Ground
6	Logic Voltage (+5VDC)

Physical Dimensions: (uncased)

Height: 3.1 inches (78.7 mm)
Width: 4.69 inches (119.1 mm)
Depth: 5.78 inches (146.8 mm)

Weight: (uncased)

3 lbs.