

# TITAN CR1600 Series Cash Drawers



- 16"W x 20"D x 3.57"H
- Heavy-gauge sheet metal with a reinforcement beam for supporting heavy top loads
- Industrial-grade ball bearing slides for smooth and long-lasting operation
- Cable management compartment
- Mounting holes for securing pole displays and peripheral cables
- Wide selection of interfaces: printer-driven, programmable and non-programmable RS232 or USB
- Supports all major brands of POS printers
- Port-powered drawers available with serial or USB interface that do not require power adapters or connection to receipt printer
- High security design with all metal construction and no external screws
- Three position lock for maximum cash security
- Adjustable bill and coin compartments
- Media slots
- Cash drawer open/close status sensing switch
- Rubber feet to prevent sliding
- Available in dark gray or beige

## Reliable, Heavy-duty Cash Drawers

The CR1600 Titan Series cash drawer was built to meet the toughest requirements of retail customers. The unit uses industrial-grade ball bearing slides for smooth and long-lasting operation. The CR1600 is made with heavy-gauge sheet metal and a reinforcement beam for supporting heavy top loads. The unit incorporates a high security design with all metal construction and no external screws.

## Flexible Features to Meet Customers' Needs

Logic Controls designed the CR1600 with flexible features focused on the requirements of our customers. The CR1600 includes an easily accessible cable management compartment to remove the clutter and risk of pulled plugs that loose cables represent. In addition, three holes are provided for securing customer pole displays and peripheral cables, and these holes can be covered if not needed. The CR1600 also includes media slots and a till with adjustable bill and coin compartments that can be configured to your needs.

## Supports Wide Range of Interfaces

The CR1600 cash drawer supports a wide range of interfaces: printer-driven, programmable and non-programmable RS232 or USB with a virtual serial port driver. Through the use of a Logic Controls EasyConnectCable, all major brands of printers including Epson, Star, Ithaca and Citizen are supported. In addition, the CR1600 is available in port-powered models that have either a serial or USB interface and do not require power adapters or a connection to a receipt printer.



An Innovative Manufacturer Since 1982

# CR1600 SERIES HEAVY-DUTY CASH DRAWER SPECIFICATIONS

## MECHANICAL

Weight	19.8 lbs.
Dimension (in inches)	
Width x Depth x Height	16" x 20" x 3.57"
Bill and Coin Tray	Adjustable slots

## ELECTRICAL

CR1600 (Control signal from POS printer)	
Pulse amplitude	12 to 24 volts DC
Pulse width	100 to 200 milliseconds
Pulse duty cycle	10% max
CR1602	
Pulse amplitude	12 volts DC
Pulse width	50u sec - 6.7 m sec
Pulse duty cycle	20% min.
CR1603	
Pulse amplitude	12 volts DC
Power consumption	<100mA
CR1606	
Power adapter input	120VAC; 220VAC optional
Power adapter output	5 volts DC
Power adapter current	300ma

## INTERFACE

CR1600 (Printer Driven)	Connects to POS printer drive circuit via cable. Ordered separately.
CR1602	RS232C, any protocol, bus powered
CR1603	USB Interface, bus powered
CR1606 (Smart Serial Interface)	
Serial input	
Data format	RS232C
Protocol	
Baud Rate	2400, 4800, 9600*, 19200
Parity	None*, Odd, Even
Data Bits	7, 8*

\*Default values

## OPEN DRAWER COMMAND

CR1600	Pulse from printer drive circuit
CR1602	Any software transmitted data
CR1603	User Programmable security code (1 to 5 bytes)
CR1606	User Programmable security code (1 to 5 bytes)

## NOTES

- CR1600  
Logic Controls supports most POS printers. Interface cable ordered separately. Please specify POS printer type when ordering cables.
- CR1602  
No power adapter required. Keys and serial interface cable supplied.
- CR1603  
No power adapter required. Keys and USB cable supplied.
- CR1606  
Power adapter, keys and serial interface cable (to computer) supplied.

## CONNECTOR PINOUT INFORMATION

### CR1600 - From POS printer (RJ11-6)

- 1 No connection
- 2 Drawer kick signal
- 3 Drawer status switch
- 4 Drawer kick signal
- 5 No connection
- 6 Drawer status switch

### CR1602 - Serial input from computer (DB25M)

- 2 Receive data
- 3 Transmit Data
- 4 Request To Send
- 5 Clear To Send
- 6 Data set ready
- 7 Ground
- 8 Data Carrier Detect
- 20 Data Terminal Ready

### CR1603 - USB input from computer (USB Type A)

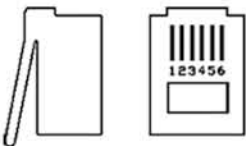
- 1 V+
- 2 D-
- 3 D+
- 4 Ground

### CR1606 - Serial input from computer (DB9F)

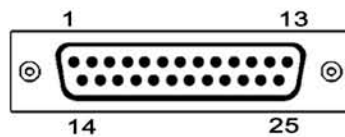
- 1 DCD - tied to pins 4 & 6
- 2 No connection
- 3 RXD from computer
- 4 DTR - tied to pins 1 & 6
- 5 Ground
- 6 DSR - tied to pins 1 & 4
- 7 RTS - tied to pin 8
- 8 CTS tied to pin 7
- 9 No connection

## INTERFACE CONNECTORS

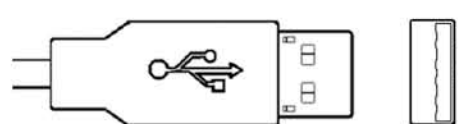
RJ11-6 (CR1600)



DB25-M (CR1602)



USB (CR1603)



DB9-F (CR1606)

