

CRANE

MERCHANDISING SYSTEMS

A Crane Co. Company

CURRENZA NAVIGATOR SYSTEM

Components and Connections

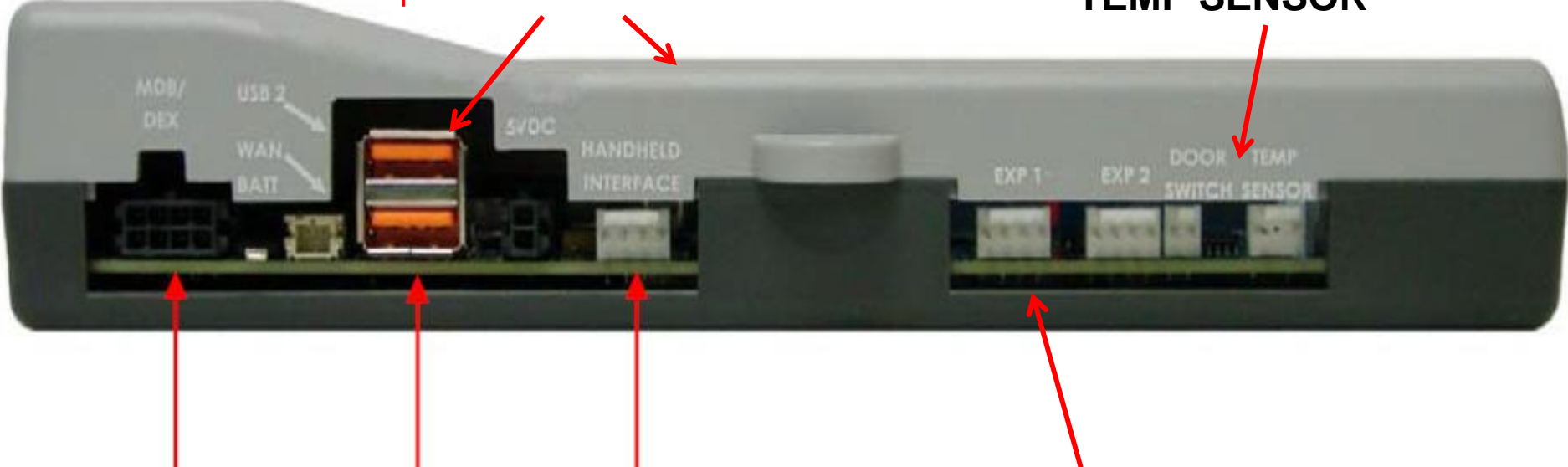


Contains an onboard computer that provides data from the vending machine. (Remote DEX, temperature monitoring, open/closed door, Wireless LAN network (optional), and DEX port).



NOTE: USB 1&2 are low power ports and cannot be used to power the radio.

DOOR SWITCH / TEMP SENSOR



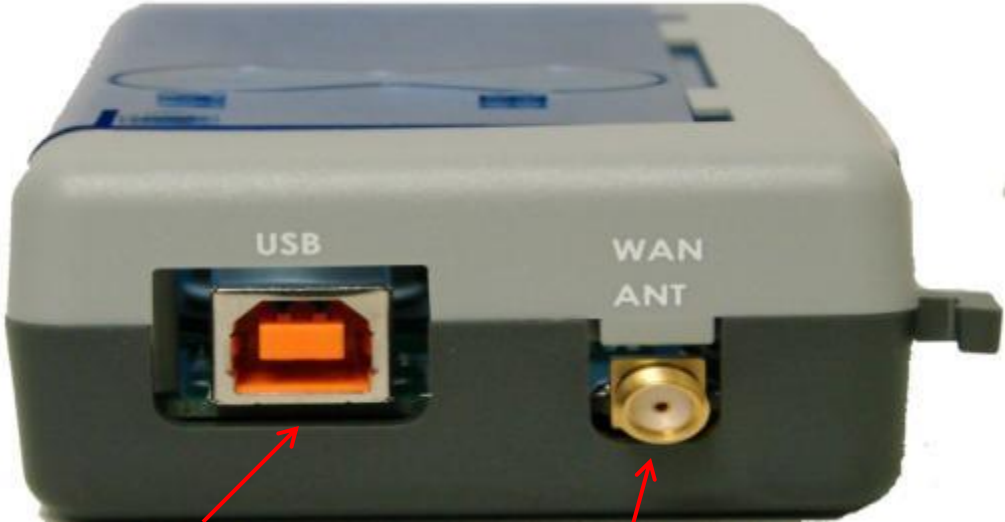
MDB/DEX –
Provides power & communication to unit from the VMC

WAN –
Provides power to Radio

INTERFACE - Connect the DEX Pass-thru Cable PART # 1679056 to the Handheld Interface Connector.

EXP 1 –
Connection for Cashless Device

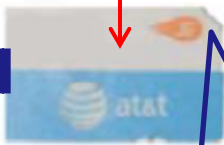
GSM Radio – CR0006674



USB Connector –
CR0006822 from
Telemetry unit

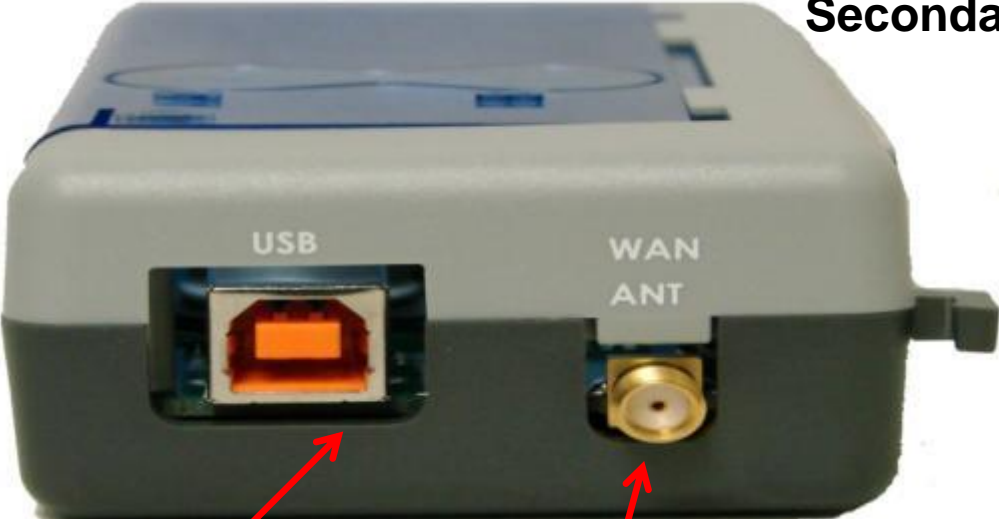
WAN Antenna –
CR0006929
Magnetic Mount
Antenna connection

SIM CARD –
CR0006824



Note: Alignment notch

NOTE: Antenna has a Gold Connector with a center pin



Secondary WAN Antenna

USB Connector-
CR0006822 from
Telemetry unit

Primary WAN Antenna
CR0006929 Magnetic
Mount Antenna connection
or external antenna

**NOTE: Antenna typically
has a Gold Connector
with a center pin**

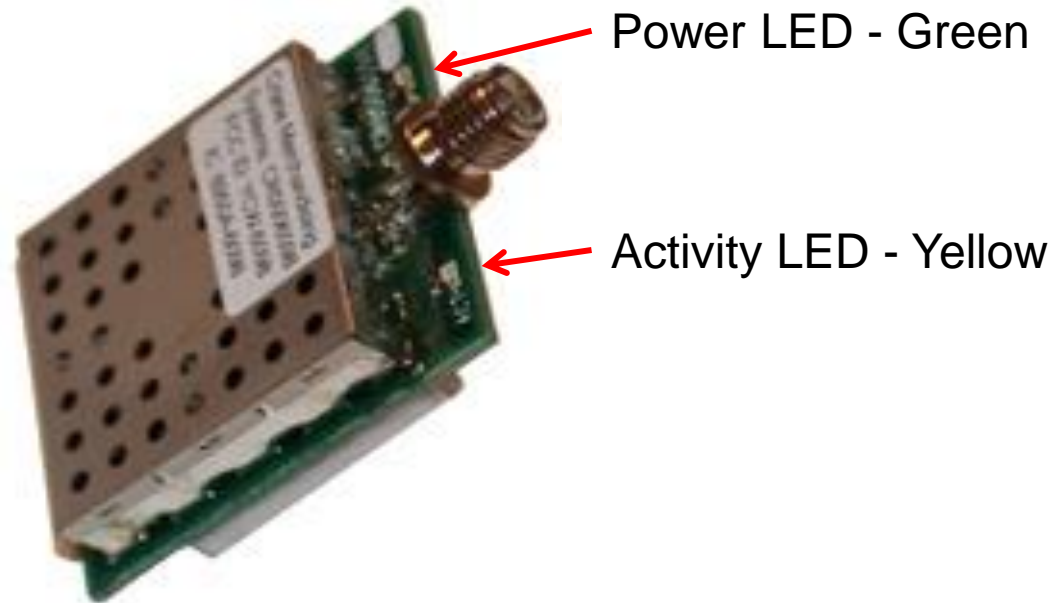
CDMA Radio WAN Module
Sprint:
Verizon





MESH RADIO MODULE : Low power private network radio used to connect a Client Navigator to a Gateway Navigator

Mesh Radio has 2 rows of pins on the underside, which plug into a socket and connect it to the Navigator.

There are 2 LEDs on the component. The Power LED is green and will remain green when power is applied. The Activity LED is amber, and be active or flashing when communication is occurring.





Standard Magnetic Radio Antenna (WAN)	External Antenna for WAN and WLAN	WLAN Magnetic Antenna for Mesh
P/N CR0006929	P/N SWCAN0000004	P/N CR0006933
Used on all radios (GSM & CDMA)	Used on all radios (GSM & CDMA and with a MESH)	Used only on Mesh radio applications
Antenna connector has a small pin in the center of the connector 	Has 2 connectors: Silver: for MESH only Gold: for WAN Radios	Antenna connector has a socket in the center of the connector 
One 18" Harness	Two 36" harnesses	One 72" Harness

SOLO: A vending machine with a Navigator, and GSM or CDMA Radio WAN module.

This configuration is used for a Stand Alone or Solo Unit



GATEWAY : A vending machine with a Navigator, a GSM or CDMA Radio WAN module, and a Mesh Radio module. A Gateway Module can host up to 5 Client Navigators.

Use this configuration on a machine that has optimal or best cell signal, and minimal interference to allow it to connect with Client units



CLIENT: A vending machine with a Navigator and a Mesh radio Module that connects to a Gateway Navigator.

This configuration is used on machines that report to the Gateway. This is typically used in locations where there is very marginal or no cell phone service



NAVIGATOR CONNECTIONS (Gateway or Solo)



MDB/DEX Cable
CR0006635



USB Cable
CR0006822: 72"
CR0020072: 12"

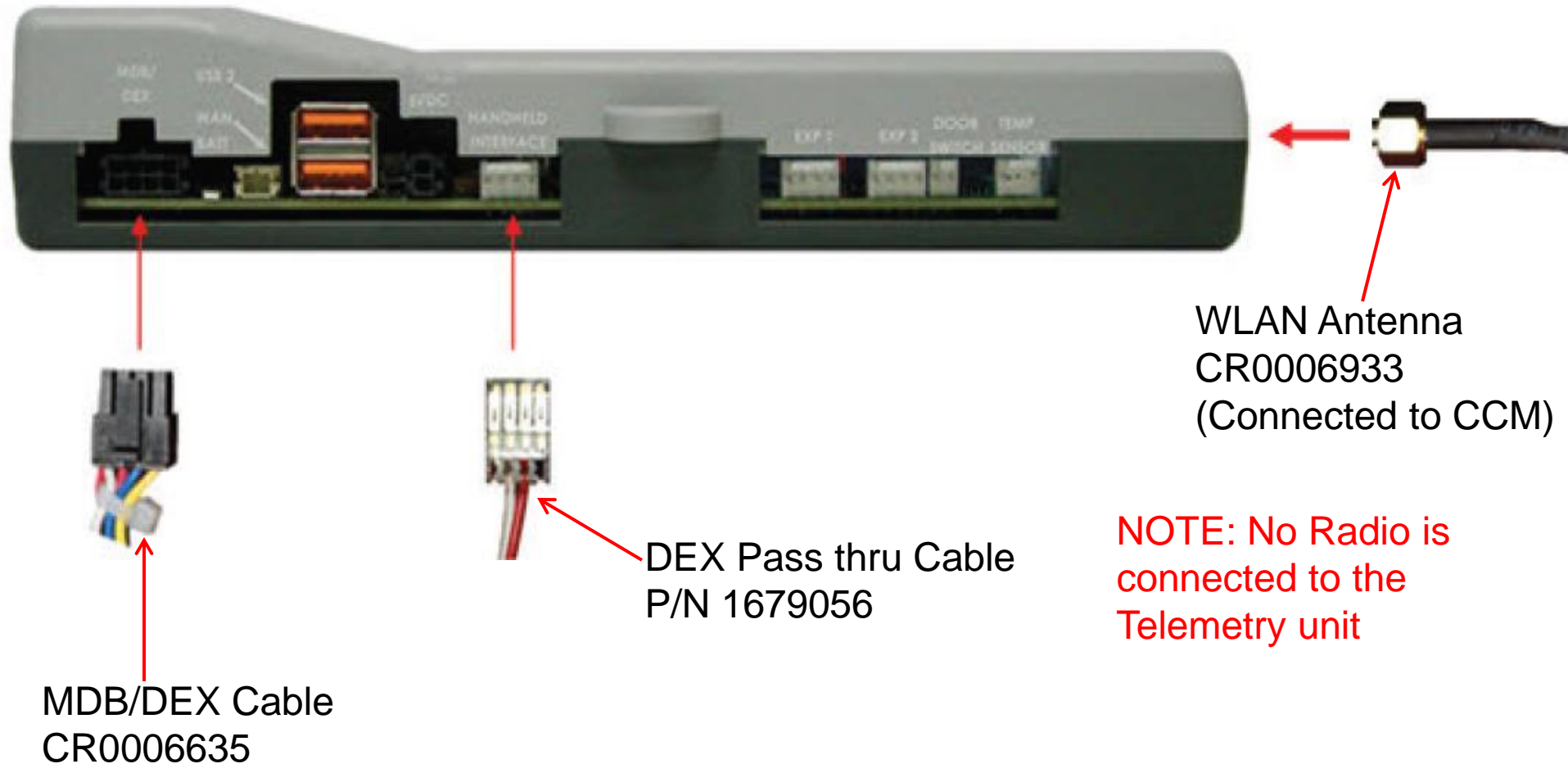


Dex Pass thru Cable
P/N 1679056

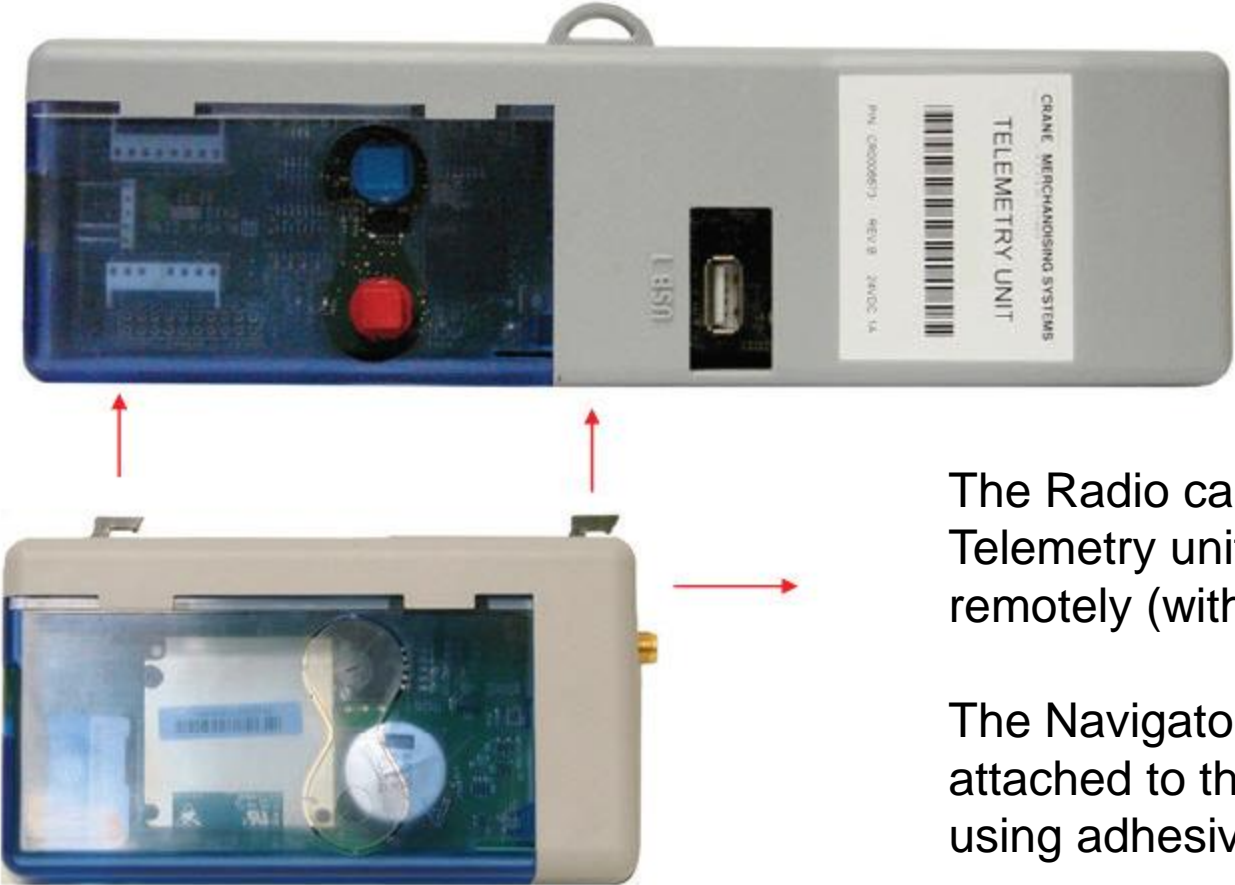
WLAN Antenna
CR0006933
(Connected to
MESH Radio only
when used as a
Gateway)

**NOTE: Not used on
Solo Unit**

NAVIGATOR CONNECTIONS (Client)



NAVIGATOR & RADIO MOUNTING



The Radio can be mounted to the Telemetry unit or can be mounted remotely (within length of USB cable).

The Navigator and Radio Module are attached to the machine components using adhesive backed Velcro pads.

IMPORTANT: Do not cover the S/N label on the back of the Radio Module when applying the Velcro.

CDMA RADIO CONNECTIONS



USB Cable
CR0006822



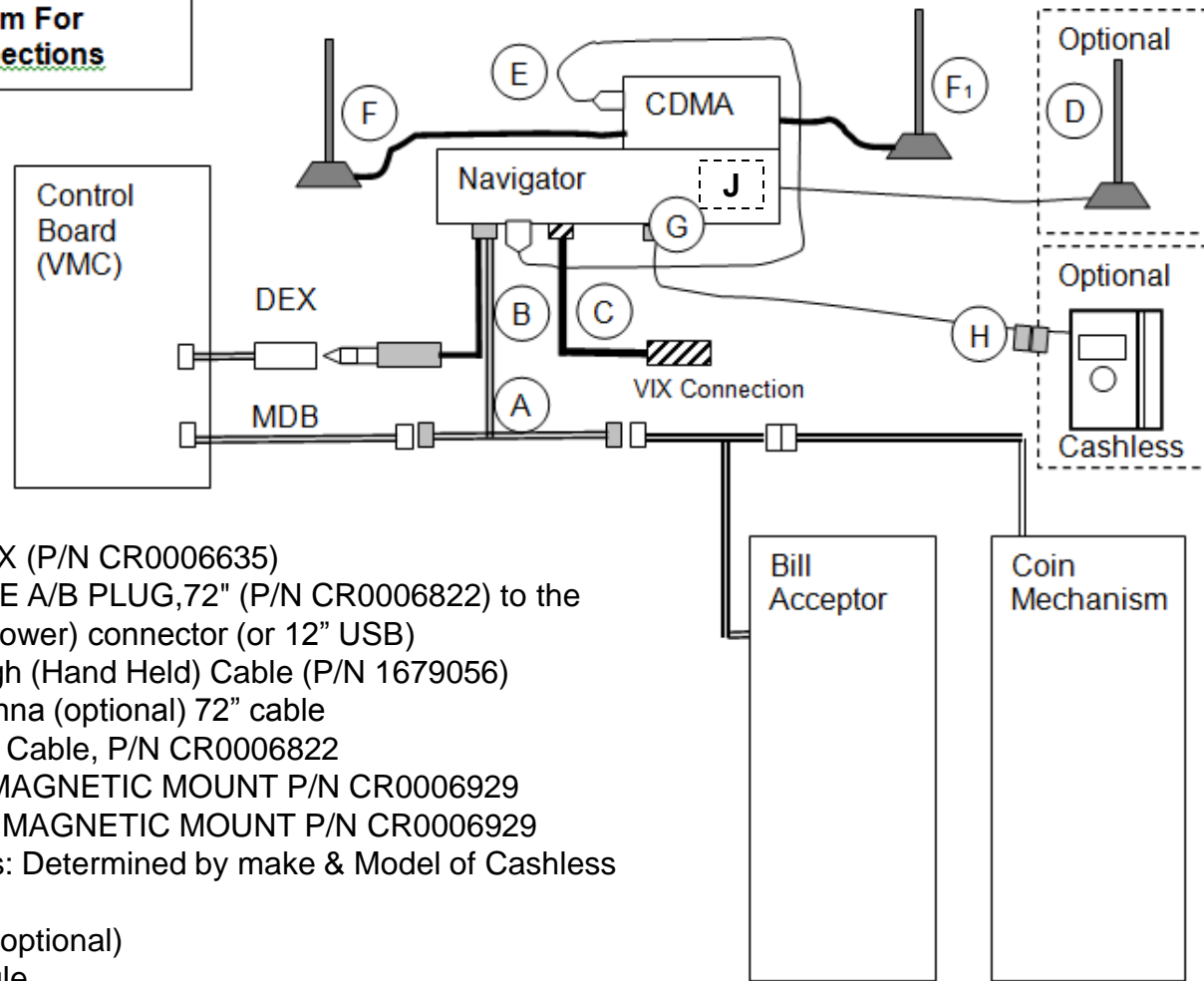
WAN Antenna
CR0006929



**NOTE: This Radio
requires two Antennas**

BLOCK DIAGRAM - CONNECTIONS

**Block Diagram For
CDMA Connections**



- A:** CABLE, MDB/DEX (P/N CR0006635)
- B:** CABLE,USB TYPE A/B PLUG,72" (P/N CR0006822) to the lower USB (high power) connector (or 12" USB)
- C:** DEX Pass Through (Hand Held) Cable (P/N 1679056)
- D:** Mesh Radio Antenna (optional) 72" cable
- E:** Other end of USB Cable, P/N CR0006822
- F:** WAN ANTENNA MAGNETIC MOUNT P/N CR0006929
- F1:** WAN ANTENNA MAGNETIC MOUNT P/N CR0006929
- G:** Cashless harness: Determined by make & Model of Cashless device (optional)
- H:** Cashless device (optional)
- J:** Mesh Radio module

Cashless Connection



EXP1 Connection
(For connecting
your cashless
device)



Currenza Harness
5900678



MEI Harness
CR0013093



MEI Tap & Swipe

CR0014477 : 36" or
CR0014989 : 120"



CPS Swipe & Tap