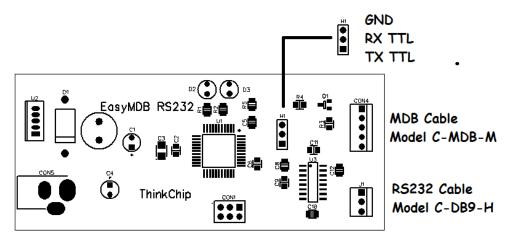


Reference Manual EasyMDB RS232-TTL

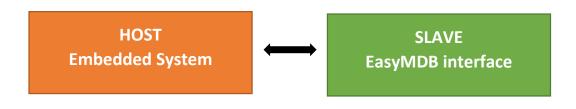
1 Introduction

This document explains how to use the interface EasyMDB RS232-TTL and describe the connections and the necessary commands for communicating with Cash System MDB (Coin Changer and Bill Validator).



Power 24VDC-48VDC

The EasyMDB interface for RS232 or TTL permits to connect a device which operates according to the MDB protocol to the serial port of embedded system.



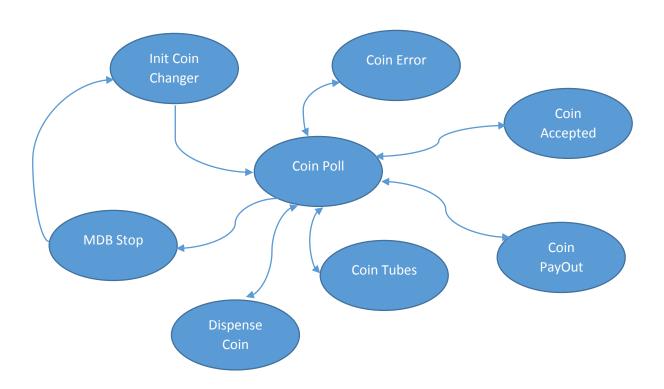
2 Interfacing with EasyMDB

The host has a number of functions to communicate with Vending Cash Devices:

2.1 Coin Changer

- Init Coin Changer
- Coin Poll
- Coin Error
- Coin Tubes
- Coin PayOut
- Coin Accepted
- Dispense Coin

First, we need call Function "Init Coin Changer", this function established if connected, yes it is, then give us all the information about Coin Changer, as Model, Serial Number, Country, etc. Then we need Poll Coin Changer, this function determines if there any change, like coin inserted and error in mechanisms. With function Coin Tubes, tell us how much money is in it, the function Coin Accepted we can enable and disable particular currency. Coin Payout is for give change to the user and MDB Stop, is for stop all the MDB communication.

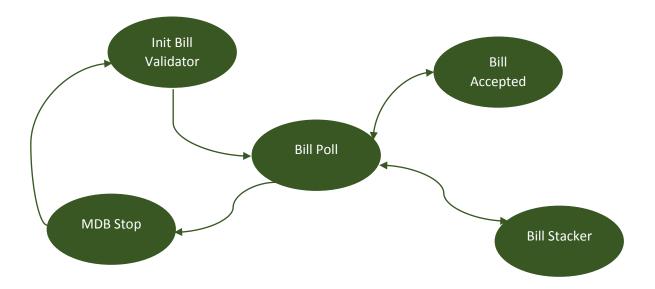


2.2 Bill Validator

The function to establish communication with Bill Validator is:

- Init Bill Validator
- Bill Poll
- Bill Accepted
- Bill Stacker
- MDB Stop

To star the communication we need call function Init Bill Validator, this function established if connected, yes it is, then give us all the information about Bill Validator has Model, Serial Number, Scaling, Country, etc. Once call Init Bill Validator, we need poll the device, with the function Bill Poll.



2.3 Data Format

The data format (Start Bit, Data Bits, parity, Stop Bit) is software configurable BaudRate. The general data format is defined as:

Parameter	Description
Baud Rate	9600 bauds (By default)
	19200 bauds
	34800 bauds
	57600 bauds
	115200 bauds
Data bits	8 bits
Start Bits	1 bit
Stop Bits	1 bit
Parity	None

2.4 Link Layer

The communication protocol is a packet-oriented protocol - all the data exchanged between two communication devices will be based on packet format.

The data packet starts with the control character, there are two types of control character, 'COIN' and 'BILL' (0x02 and 0x03 hexadecimal value respectively) and ends with 'FC' (0xff hexadecimal value), which follows the 8-bit BCC checksum. Besides the checksum is used for error checking, character (byte).

2.5 Packet format

There are two types of data packets. Command Message is the packet Send from the Host to the SLAVE device. The Reply Message is the packet Send from the reader to the Host.

Device	Command	Data	FC (Final character)	Checksum BCC 8 bits
SYSTEM=0x01 COIN=0x02 BILL=0x03	These describe the action that will be realized. For example COIN_INIT=0x01	The Data Field is a stream of data with variable length, which depends on the Command word. There are also some COMMANDs have zero length of data field.	FC=0xff	Checksum is the last character to be sent, is calculated by adding all character, the checksum is not included in the summation.

Packet format for Command Message (HOST to SLAVE)

Packet format for Reply Message (SLAVE to HOST)

Device	Command	Data	FC (Final character)	Checksum BCC 8 bits
SYSTEM=0x01 COIN=0x02 BILL=0x03	These describe the action order	The Data Field is a stream of data with variable length, which depends on the Command word. There are also some COMMANDs have zero length of data field.	FC= 0xff	Checksum is the last character to be sent, is calculated by adding all character, the checksum is not included in the summation.

2.6 Command Set

The commands are grouped to different categories. Divided for the Devices, the command represent an action to be realized.

Interface Settings (0x01)		
0x02	MDB Stop	Stop all communication
		with MDB devices

Coin Changer (0x02)		
0x01	Init Coin Changer	To obtain changer level and configuration
		information.
0x03	Coin Poll	Indicates the changer
		activity.
0x05	Coin Tubes	Indicates status of coin
		tube for coin
0x07	Coin PayOut	PayOut Coin Changer
0x08	Coin Accepted	Setting enable and
		disable coin type
		accepted
0x0a	Coin Error	This command requests
		the changer to report its
		current state of
		operation.
0x0b	Coin Dispense	Dispense coin, this action
		is for coin changer level 1
		for pay out.

Bill Validator (0x03	3)	
0x01	Init Bill Validator	To obtain bill
		configuration.
0x02	Bill Poll	Indicate the bill activity
0x03	Bill Stacker	Indicate the number of
		bills in the stacker.
0x04	Bill Accepted	Setting enable and
		disable the bills type
		accepted.

Display MDB (0x04)		
0x04	Display Value	Display value cash
		inserted



2.7 System commands

2.7.1 MDB Stop

HOST to SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x01	Device	System
Buffer Output[1]=0x02	Command	MDB Stop
Buffer Output[2]=FC	FC	FC=0xff
Buffer Output[3]=CHK	CHECKSUM	

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x01	Device	System
Buffer Input[1]=0x02	Command	MDB Stop
Buffer Input[2]	Data	Response
		0x01 OK
		0x00 FAIL
Buffer Input[3]=FC	FC	FC=0xff
Buffer Input[4]=CHK	CHECKSUM	



2.8 Coin Changer commands

2.8.1 Init Coin Changer

HOST to SLAVE

Buffer Output	Packet	Description
	Format	
Buffer Output[0]=0x02	Device	Coin Changer
Buffer Output[1]=0x01	Command	Init Coin Changer
Buffer Output[2]=FC	FC	FC=0xff
Buffer Output[3]=CHK	CHECKSUM	

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x02	Device	Coin Changer
Buffer Input[1]=0x01	Command	Init Coin Changer
Buffer Input[2]	Data	Level
		Changer Feature Level - 1 byte
		Indicates the feature level of the changer. This
		will distinguish the changers feature level to the
		VMC. Current defined levels:
		Level 2: Supports "core" command set. These are:
		RESET, STATUS, TUBE STATUS, POLL, COIN
		TYPE, and DISPENSE.
		Level 3: Supports level two and the EXPANSION
		command addition changer model number,
		manufacturer code, turning revision, etc.
Buffer Input[3] to	Data	Manufacturer Code (3 bytes)
Buffer Input[5]		Identification code for the equipment supplier.
		Sent as ASCII characters.
Buffer Input[6] to	Data	Model Coin Changer (12 bytes)
Buffer Input[17]		Manufacturer assigned model number and tuning
		number. All bytes must be sent as ASCII
		characters, zeros (30H) and blanks (20H) are
		acceptable. Each manufacturer should include
		information concerning the changer tuning
		revision.
Buffer Input[18] to	Data	Serial Number Coin Changer (12 bytes)
Buffer Input[29]		Factory assigned serial number. All bytes must be
		sent as ASCII characters, zeros (30H) and blanks
		(20H) are acceptable.
Buffer Input[30]	Data	Scaling Factor (1 byte)
		All accepted coin values must be evenly divisible
		by this number. For example, this could be set to
		05H for the USA nickel.
Buffer Input[31]	Data	Decimal Places (1 byte)

Buffer Input[32]= msb Buffer Input[33]= lsb	Data	Indicates the number of decimal places on a credit display. For example, this could be set to 02H in the USA. Country (2 bytes) The packed BCD country / currency code of the changer can be sent in two different forms depending on the value of the left most BCD digit. If the left most digit is a 0, the international Telephone Code is used to indicate the country that the changer is set-up for. For example, the USA code is 00 01H (Buffer Input[31] = 00 and
Buffer Input[34] to Buffer Input[49]	Data	Buffer Input[32] = 01). Coin Value Accepted (16 bytes) Indicates the value of coin types 0 to 15. Values must be sent in ascending order. This number is the coin's monetary value divided by the coin scaling factor. Unused coin types are sent as 00H. Unsent coin types are assumed to be zero. It is not necessary to send all coin types. Coin type credits sent as FFH are assumed to be vend tokens. That is, their value is assumed to worth one vend. The bytes position in the 16 byte string indicates the coin type(s). For example, the first byte sent would indicate the value of coin type 0, the second byte sent would indicate the value of coin type 1, and so on. For example, the USA coin types may be; Coin type 0 = nickel, Coin type 1 = dime, Coin type 2 = quarter, Coin type 3 = dollar.
Buffer Input[50]=FC	FC	FC=0xff
Buffer Input[51]=CHK	CHECKSUM	

2.8.2 Coin Poll

HOST to SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x02	Device	Coin Changer
Buffer Output[1]=0x03	Command	Poll Coin Changer
Buffer Output[2]=FC	FC	FC=0xff
Buffer Output[3]=CHK	CHECKSUM	

Buffer Input	Packet	Description
build input	Format	beschption
Buffer Input[0]=0x02	Device	Coin Changer
Buffer Input[1]=0x03	Command	Poll Coin Changer
Buffer Input[2]=msb	Data	Value Coin Inserted (2 bytes)
Buffer Input[3]=Isb	Data	Amount of coins inserted, should be divided
		between Scaling Factor Value.
Buffer Input[4]	Data	Coin Routing (1 byte)
	Dutu	Coin routing. 00b or 0x00: CASH BOX
		01b or 0x01: TUBES
		10b or 0x02: NOT USED
		11b or 0x03: REJECT
Buffer Input[5]=msb	Data	Coin Value Dispensed Manually (2 bytes)
Buffer Input[6]=lsb	2444	Amount of cash dispensed manually by Operator
		of Coin Changer
Buffer Input[7]	Data	Status Coin Changer
	Dutu	(00000001b or 0x01) = Escrow request - An
		escrow lever activation has been detected.
		(00000010b or 0x02) = Changer Payout Busy - The
		changer is busy activating payout devices.
		(00000011b or 0x03) = No Credit - A coin was
		validated but did not get to the place in the
		system when credit is given.
		(00000100b or 0x04) = Defective Tube Sensor -
		The changer has detected one of the tube
		sensors behaving abnormally.
		(00000101b or 0x05) = Double Arrival - Two coins
		were detected too close together to validate
		either one.
		(00000110b or 0x06) = Acceptor Unplugged - The
		changer has detected that the acceptor has been
		removed.
		(00000111b or 0x07) = Tube Jam - A tube payout
		attempt has resulted in jammed condition.
		(00001000b or 0x08) = ROM checksum error -
		The changers internal checksum does not match
		the calculated checksum.
		(00001001b or 0x09) = Coin Routing Error - A coin
		has been validated, but did not follow the
		intended routing.
		(00001010b or 0x0a) = Changer Busy - The
		changer is busy and can't answer a detailed
		command right now.
		(00001011b or 0x0b) = Changer was Reset - The
		changer has detected a Reset condition and has
		returned to its power-on idle condition.

		(00001100b or 0x0c) = Coin Jam - A coin(s) has jammed in the acceptance path. (00001101b or 0x0d) = Possible Credited Coin Removal – There has been an attempt to remove
Buffer Input[8]=FC	FC	a credited coin. FC=0xff
Buffer Input[9]=CHK	CHECKSUM	

2.8.3 Coin Tubes

HOST to SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x02	Device	Coin Changer
Buffer Output[1]=0x05	Command	Tube Status Coin Changer
Buffer Output[2]=FC	FC	FC=0xff
Buffer Output[3]=CHK	CHECKSUM	

SLAVE to HOST

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x02	Device	Coin Changer
Buffer Input[1]=0x01	Command	Tube Status Coin Changer
Buffer Input[2]=msb	Data	Value Cash in Tubes of Coin Changer (2 bytes)
Buffer Input[3]=lsb		Total Amount Cash in Tubes of Coin Changer
Buffer Input[4]=FC	FC	FC=0xff
Buffer Input[5]=CHK	CHECKSUM	

2.8.4 Coin PayOut

HOST to SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x02	Device	Coin Changer
Buffer Output[1]=0x07	Command	PayOut Coin Changer
Buffer Output[2]=msb	Data	Amount PayOut Coin Changer (2 bytes)
Buffer Output[3]=lsb		This value is expressed as the number of coin scaling factors that would sum to the value. For example, in a USA system using a scaling factor of 05, if the change to be paid out is 75 cents, then Y1 will equal fifteen. That is, the sum of fifteen nickels equal 75 cents. The coin changer will determine which actual denominations of coins will be paid out. In the 75 cent example, the coins

		may be 3 quarters; or, 7 dimes & 1 nickel; or, 2 quarters & 2 dimes & 1 nickel, etc.
Buffer Output[4]=FC	FC	FC=0xff
Buffer Output[5]=CHK	CHECKSUM	

SLAVE to HOST

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x02	Device	Coin Changer
Buffer Input[1]=0x07	Command	PayOut Coin Changer
Buffer Input[2]	Data	Confirmation PayOut Coin Changer (1 byte)
		OK 0x01
		FAIL 0x00
Buffer Input[3]=FC	FC	FC=0xff
Buffer Input[4]=CHK	CHECKSUM	

2.8.5 Coin Accepted

HOST to SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x02	Device	Coin Changer
Buffer Output[1]=0x08	Command	Coin Accepted Coin Changer
Buffer Output[2]=msb	Data	Coin Enable(2 bytes)
Buffer OutPut[3]=lsb		b15 b14 b13 b12 b11 b10 b9 b8 b7 b6 b5 b4 b3 b2 b1 b0 Y1 Y2
		A bit is set to indicate a coin type is accepted. For
		example, bit 6 is set to indicate coin type 6, bit 15
		is set to indicate coin type 15, and so on. To
		disable the changer, disable all coin types by
		sending a data block containing 0000H. All coins
		are automatically disabled upon reset.
Buffer Output[4]=msb	Data	Manually Coin Enable (2 bytes)
Buffer Output[5]=lsb		b15 b14 b13 b12 b11 b10 b9 b8 b7 b6 b5 b4 b3 b2 b1 b0 Y1 Y2
		A bit is set to indicate dispense enable. For example, bit 2 is set to enable dispensing of coin type 2. This command enables/disables manual
		dispensing using optional inventory switches. All
		manual dispensing switches are automatically enabled upon reset
Buffer Output[6]=FC	FC	FC=0xff
Buffer Output[7]=CHK	CHECKSUM	

SLAVE to HOST

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x02	Device	Coin Changer
Buffer Input[1]=0x08	Command	Coin Accepted Coin Changer
Buffer Input[2]	Data	Confirmation PayOut Coin Changer (1 byte)
		OK 0x01
		FAIL 0x00
Buffer Input[3]=FC	FC	FC=0xff
Buffer Input[4]=CHK	CHECKSUM	

2.8.6 Coin Error

HOST to SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x02	Device	Coin Changer
Buffer Output[1]=0x0a	Command	Error Coin Changer
Buffer Output[2]=FC	FC	FC=0xff
Buffer Output[3]=CHK	CHECKSUM	

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x02	Device	Coin Changer
Buffer Input[1]=0x0a	Command	Error Coin Changer
Buffer Input[2]=msb	Data	Error Status Coin Changer (2 bytes)
Buffer Input[3]=lsb		This command requests the changer to report its
If exist more than one error in		current state of operation. The VMC should
Coin Changer, could be sent		periodically transmit the command
until Buffer Input[16]		approximately every 1 to 10 seconds.
		The changer reports its current state of operation
		in a 2 byte code, msb is the main code and lsb is
		the sub-code. The code is reported as long as the
		condition exists and stops being reported as soon
		as the condition does not exist. Multiple 2 byte
		codes may be sent in response to a single
		command which could result in a maximum of
		eight 2 byte codes (16 bytes total).
Buffer Input[X]=FC	FC	FC=0xff
Buffer Input[X]=CHK	CHECKSUM	

2.8.7 Dispense Coin

HOST TO SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x02	Device	Coin Changer
Buffer Output[1]=0x0b	Command	Dispense Coin
Buffer Output[2]	Data	Coin Type
		Indicate coin type to be dispensed. Valid codes
		are 0H to FH to indicate coin types 0 to 15.
Buffer Output[3]	Data	Numbers of coins
		Indicate the number of coins to be dispensed.
		Range of 0 to 15
Buffer Output[4]=FC	FC	FC=0xff
Buffer Output[5]=CHK	CHECKSUM	

SLAVE TO HOST

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x02	Device	Coin Changer
Buffer Input[1]=0x0b	Command	Dispense Coin
Buffer Input[2]	Data	Response
		Data = 1 OK
		Data = 0 Fail
Buffer Input[3]=FC	FC	FC=0xff
Buffer Input[4]=CHK	CHECKSUM	



2.9 Bill Validator commands

2.9.1 Init Bill Validator

HOST to SLAVE

Buffer Output	Packet	Description
	Format	
Buffer Output[0]=0x03	Device	Bill Validator
Buffer Output[1]=0x01	Command	Init Bill Validator
Buffer Output[2]=FC	FC	FC=0xff
Buffer Output[3]=CHK	CHECKSUM	

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x03	Device	Bill Validator
Buffer Input[1]=0x01	Command	Init Bill Validator
Buffer Input[2] to	Data	Manufacturer Code Bill Validator (3 bytes)
Buffer Input[4]		Identification code for the equipment supplier.
		Sent as ASCII characters.
Buffer Input[5] to	Data	Model Bill Validator (12 bytes)
Buffer Input[16]		Manufacturer assigned model number and tuning
		number. All bytes must be sent as ASCII
		characters, zeros (30H) and blanks (20H) are
		acceptable. Each manufacturer should include
		information concerning the changer tuning
		revision.
Buffer Input[17] to	Data	Serial Number Bill Validator (12 bytes)
Buffer Input[28]		Factory assigned serial number. All bytes must be
		sent as ASCII characters, zeros (30H) and blanks
		(20H) are acceptable.
Buffer Input[29]	Data	Escrow Bill Validator (1 byte)
		Indicates the escrow capability of the bill
		validator. If Input = 0x00, the bill validator does
		not have escrow capability. If Input = 0xFF, the
		bill validator has escrow capability.
Buffer Input[30]	Data	Decimal Places Bill Validator (1 byte)
		Indicates the number of decimal places on a
		credit display. For example, this could be set to
Duffen henrit [24]	Detr	02H in the USA.
Buffer Input[31]=msb	Data	Scaling Factor Bill Validator (2 bytes)
Buffer Input[32]=lsb		All accepted bill values must be evenly divisible
		by this number. For example, this could be set to 0064H for the USA.
Buffor Input[22]- mch	Data	
Buffer Input[33]= msb Buffer Input[34]= lsb	Data	Stacker Capacity Bill Validator (2 bytes) Indicates the number of bills that the stacker will
Builer inpul[34]= isb		
		hold. For example, 400 bill capacity = 0190H.

Buffer Input[35] to	Data	Bills Type Accepted (16 bytes)
Buffer Input[50]		Indicates the value of the bill types 0 to 15.
		Values must be sent in ascending order. This
		number is the bill's monetary value divided by
		the bill scaling factor. Unused bill types are sent
		as 00H. Unsent bill types are assumed to be zero.
		FFH bills are assumed to be vend tokens.
Buffer Input[51]=FC	FC	FC=0xff
Buffer Input[52]=CHK	CHECKSUM	

2.9.2 Bill Poll

HOST to SLAVE

Buffer Output	Packet	Description
	Format	
Buffer Output[0]=0x03	Device	Bill Validator
Buffer Output[1]=0x02	Command	Poll Bill Validator
Buffer Output[2]=FC	FC	FC=0xff
Buffer Output[3]=CHK	CHECKSUM	

Buffer Input	Packet Format	Description
Buffer Input[0]=0x03	Device	Bill Validator
Buffer Input[1]=0x02	Command	Poll Bill Validator
Buffer Input[2]= msb	Data	Value Bills Inserted (2 bytes)
Buffer Input[3]=lsb		Indicate the value total of bills inserted, the value
		should be divided between Scaling Factor Bill
		Validator for obtain the real value.
Buffer Input[4]	Data	Status Bill Validator (1 byte)
		(0000000b) = OK
		(0000001b) = Defective Motor - One of the
		motors has failed to perform its expected
		assignment.
		(00000010b) = Sensor Problem - One of the
		sensors has failed to provide its response.
		(00000011b) = Validator Busy - The validator is
		busy and can't answer a detailed command right
		now.
		(00000100b) = ROM Checksum Error - The
		validator internal checksum does not match the
		calculated checksum.
		(00000101b) = Validator Jammed - A bill(s) has
		jammed in the acceptance path.

FC	FC=0xff
	(stacked) bill.
	There has been an attempt to remove a credited
	(00001100b) = Possible Credited Bill Removal –
	but rejected because it could not be identified.
	(00001011b) = Bill Rejected - A bill was detected,
	ESCROW command was requested for a bill not in the escrow position.
	(00001010b) = Invalid Escrow request - An
	internal conditions.
	has been disabled, by the VMC or because of
	(00001001b) = Validator Disabled - The validator
	removed.
	validator has detected the cash box to be open or
	(00001000b) = Cash Box out of position - The
	sent.
	means. A BILL RETURNED message should also be
	position has been removed by an unknown
	(00000111b) = Bill Removed - A bill in the escrow
	(00000110b) = Validator was reset - The validator has been reset since the last POLL.
	FC

2.9.3 Bill Stacker

HOST to SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x03	Device	Bill Validator
Buffer Output[1]=0x03	Command	Stacker Bill Validator
Buffer Output[2]=FC	FC	FC=0xff
Buffer Output[3]=CHK	CHECKSUM	

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x03	Device	Bill Validator
Buffer Input[1]=0x03	Command	Stacker Bill Validator
Buffer Input[2]= msb	Data	Stacker Capacity (2 bytes)
Buffer Input[3]=lsb		Indicates stacker full condition and the number of
		bills in the stacker.
		msb Isb
		(Fxxxxxx) (xxxxxxx)
		F = 1 if stacker is full, 0 if not.

		xxxxxxxxxxxxxx = The number of bills in the stacker.
Buffer Input[4]=FC	FC	FC=0xff
Buffer Input[5]=CHK	CHECKSUM	

2.9.4 Bill Accepted

HOST to SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x03	Device	Bill Validator
Buffer Output[1]=0x04	Command	Bills Accepted
Buffer Output[2]= msb	Data	Bill Enable (2 bytes)
Buffer Output[3]= lsb		Indicates what type of bills are accepted.
		b15 b14 b13 b12 b11 b10 b9 b8 b7 b6 b5 b4 b3 b2 b1 b0 Y1 $$\rm Y2$$
		Bill types are 0 to 15. A bit is set to indicate
		acceptance of bill type.
		Sending 0x00 disables the bill validator
Buffer Output[4]=FC	FC	FC=0xff
Buffer Output[5]=CHK	CHECKSUM	

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x03	Device	Bill Validator
Buffer Input[1]=0x03	Command	Stacker Bill Validator
Buffer Input[2]	Data	Bill Enable Confirmation
		0x00 FAIL
		0x01 OK
Buffer Input[3]=FC	FC	FC=0xff
Buffer Input[4]=CHK	CHECKSUM	

2.10 Display MDB

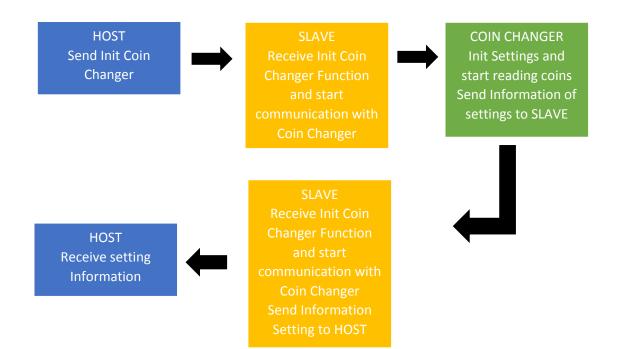
HOST to SLAVE

Buffer Output	Packet Format	Description
Buffer Output[0]=0x04	Device	Display MDB
Buffer Output[1]=0x01	Command	Display Value
Buffer Output[2]= msb Buffer Output[3]= lsb	Data	Value (2 bytes) The display has 4 digits, the max value is 9999 that is 99.99
Buffer Output[4]=FC	FC	FC=0xff
Buffer Output[5]=CHK	CHECKSUM	

Buffer Input	Packet	Description
	Format	
Buffer Input[0]=0x04	Device	Display MDB
Buffer Input[1]=0x01	Command	Display Value
Buffer Input[2]	Data	Display Value Confirmation
		0x00 FAIL
		0x01 OK
Buffer Input[3]=FC	FC	FC=0xff
Buffer Input[4]=CHK	CHECKSUM	

2.11 Example communication

This chapter explains the way of communicating with MDB Devices. The HOST send a function to the SLAVE, the SLAVE try to communicate with Cash Device, then wait for response, send to HOST the response. Now let's see an example with Init Coin Changer Function.



History version manual

- V1.0 Date 05/2014
 - First revision manual
- V1.0.1 Date 06/2014
 - Added Dispense Coin command
 - Add parameter Level in Init Coin command
 - Eliminate the Baudrate command

V2.0 Date 08/2014

- Added Display command value
- Rev 2 of PCB updated