



OCT Co.,Ltd.

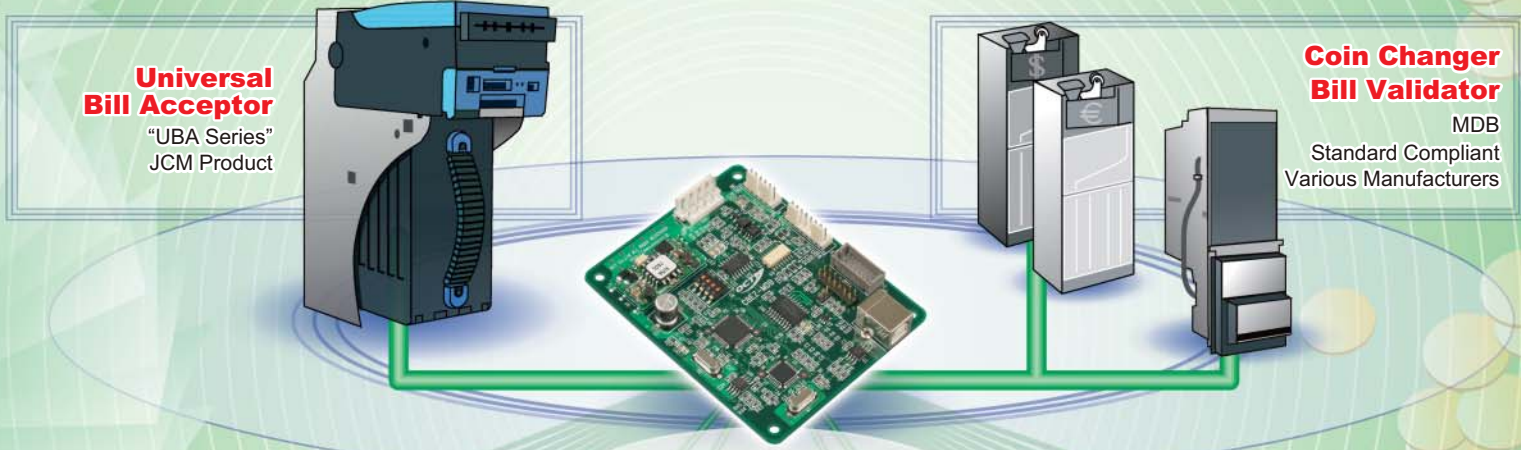
Cash Transaction System with World Standard MDB (MultiDropBus) Coin Changer

CBEZ-MDB

RoHS compatible

CBEZ-MDB is a charge control system that supports various foreign currencies and handles cash transaction such as charge commands sent from user computers.

This system combines a Coin Changer (C/C) that is compliant with the world standard MDB Protocol and a highly reliable advanced Bill Validator (B/V) manufactured by JCM (Japan Cash Machine Co., Ltd.) and features cash transaction such as charge transaction of various foreign currencies. CBEZ-MDB system is ideal for charge transaction in foreign machines including computer-based service machines and kiosk terminals.



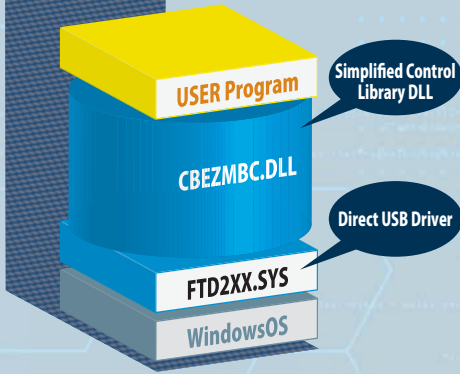
C/C-B/V Control System
CBEZ-MDB



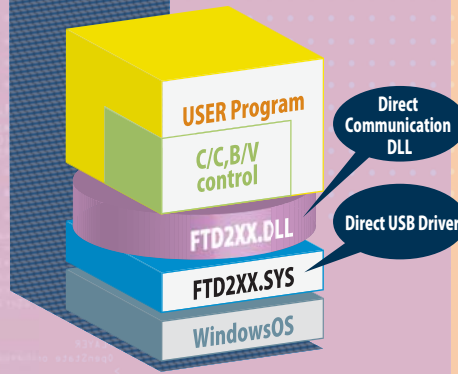
Ideal solution for flexible handling of foreign currencies



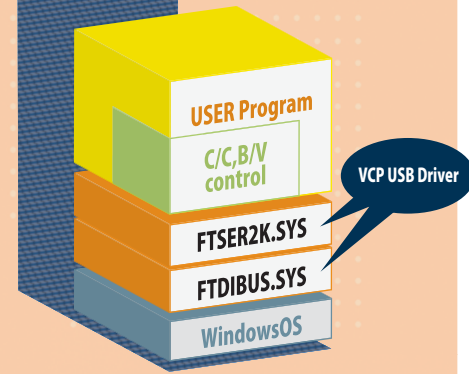
Simplified Control Scheme



Direct DLL Scheme



VCP Scheme



For usual charge control, **simplified control library** reduces complexity of C/C-B/V commands. To use simplified control library, this scheme uses a direct USB driver and links the simplified control library (instead of communication DLL) to user programs.

C/C-B/V direct control scheme uses direct communication of C/C-B/V data format. This enables minute controls including user-specific transactions and use of extended commands.

Two Data Send / Receive Schemes:

“Direct DLL Scheme” links a communication DLL that directly communicates with USB driver, and uses the function. This scheme is less affected by difference and/or change of computer environment compared to VCP scheme, and therefore, it offers more stable performance.

“VCP Scheme” uses CBEZ-Pro communication port as a virtual serial port at the time of driver installation. This scheme is highly useful because it uses the port as a COM port and enables use of conventional serial port control such as WindowsAPI.

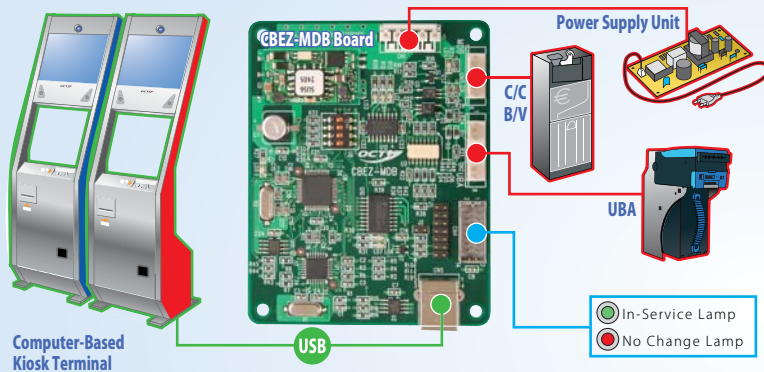
Example of Transaction
7 Euro charge and 10 Euro deposit

Charge transaction is completed in 4 steps!

Note: This example only shows the major parts of charge transaction. Some transactions may require call of other library functions.

<p>Start accepting deposit (Amount less than 7 Euro is accepted)</p> <p>CBEZ Library Function CBEZ_Accept() function</p> <p>C/C - B/V Status Deposit unavailable ? Deposit available</p>	<p>Wait for deposit Check deposit amount (if the amount is less than 7 Euro) Regularly check deposit amount until it reaches charge amount or more.</p> <p>CBEZ_GetCBEZData() function Deposit available</p> <p>* Deposit a 10 Euro bill.</p>	<p>Check deposit amount ? Deposit of 10 Euro is acknowledged.</p> <p>CBEZ_GetCBEZData() function Deposit available ? Deposit unavailable</p>	<p>7 Euro is sold (Balance: 3 Euro)</p> <p>CBEZ_Charge() function Deposit unavailable</p>	<p>3 Euro is given back as change.</p> <p>CBEZ_PayBack() function Change is given back.</p> <p>* 3 Euro is given back.</p>
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Composition of CBEZ-MDB System



CBEZ-MDB Board

Backup Memory

- Carries FeRAM that uses no battery or capacitor, requiring no maintenance work.
- Records internal C/C - B/V information as needed, enabling smooth recovery at the time of failure.
- Carries a deposit / withdrawal counter and user use counter for each currency.

General-Purpose Parallel Input

- For switch device of terminals that do not support keyboards.

General-Purpose Parallel Output

- For turning on lamps and on/off of motor.

Power Supply

- Operational with DC+34V(DC+24V) or DC+12V

Developer



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