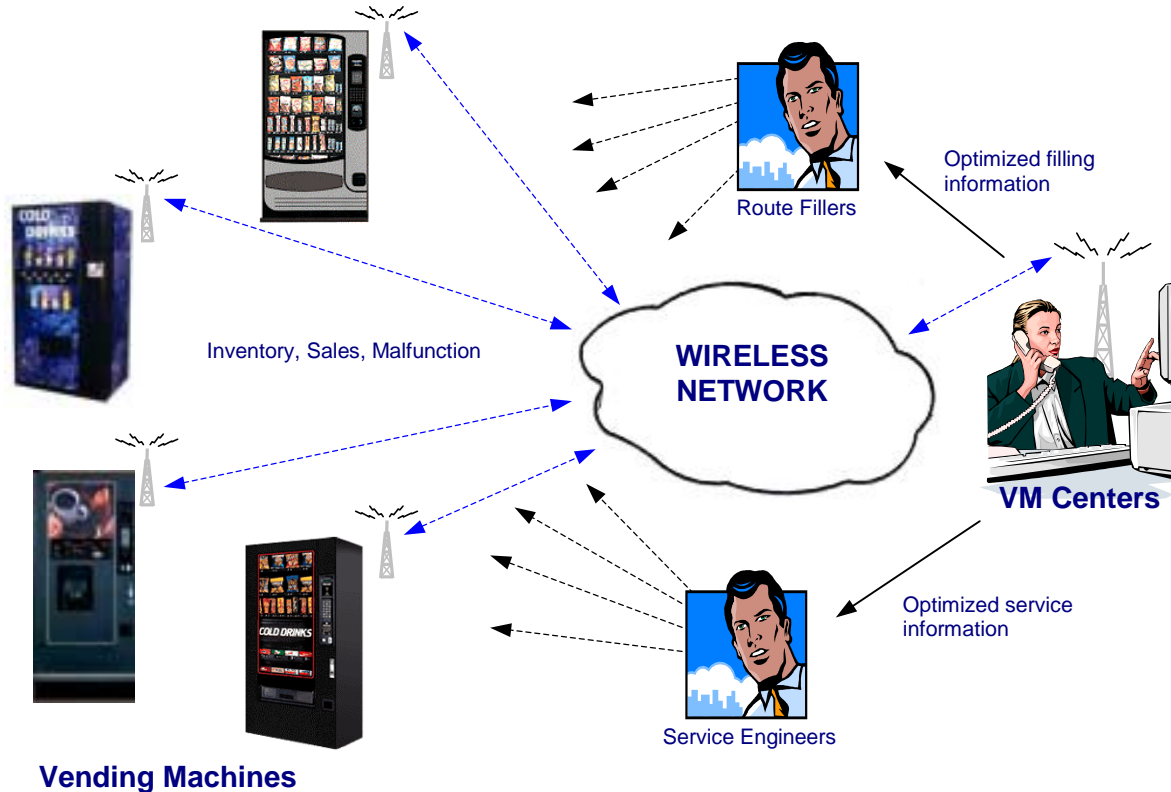


Intelligent Online Vending

PUT YOUR VENDING BUSINESS INTO A HIGHER GEAR

Products

DMS Tech establishes an online information bridge between your vending machines and operation center(s).



Vending Machines

- Information is collected online through a wireless network. So there is no need to go to every vending machine separately to collect sales, inventory or malfunction information.
- A warning system can be provided to inform the center of any kind of event, which has happened in any vending machine in your network.
- The center optimizes the information arriving online from every vending machine. Then the appropriate staff is directed to the selected vending machine.
- As a result of being an online vending machine operator you will optimize your time spend in the daily operation of your vending machine network.

Our products have the ability of working with any kind of external modems, wired or wireless, to be able to support the different standards throughout the world (different frequencies are used in different countries).

Technical and whitepaper documents, about several applications in the field, will be reachable from our website at www.dms-tech.com or our ftpsite at [ftp.dms-tech.com](ftp://ftp.dms-tech.com).

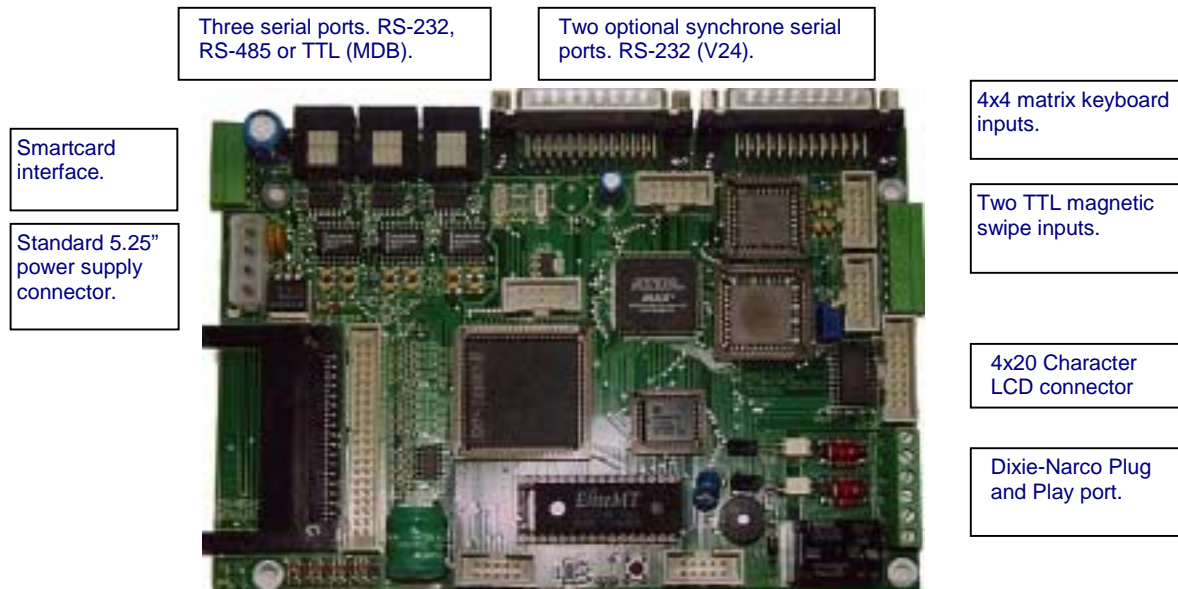
Our engineering capabilities will put your vending machine operation ideas into a higher gear.

Intelligent Online Vending

Vending Machine Products

Electronic Card

DMS Tech developed an electronic controller card, which you can see in the picture. It is used in three applications currently, VMCom, VMComEM and VM-POS.



VMCom

In this application, information available inside the vending machine is gathered through one of the vending machine standards (MDB, Executive, etc.) and is then transferred through a wireless network. For example, Mobitex 450 or 900 MHz (operated by RAM Mobile Holland, RAM Mobile UK, Corbuss Turkey, Bell South USA, etc.) or one of the GSM networks 900, 1800 or 1900 MHz from any operator by using GSM-data or the Short Message Service (SMS).

VMComEM

In this application, the electronic card is used to control an electro-mechanical machine from Dixie-Narco (models V468 and V340). The system is Plug and Play by using the available connectors in the machine. On the controller card there are two high voltage inputs (110V ac to 220V ac) to measure the state of the machine (counting coin acceptor credits and machine empty signal). For supplying a vend signal, there is an onboard relay output (110V ac to 220V ac). This information then is transferred through a wireless network, described before.

VM-POS

The VM-POS application can be combined with the VMCom and VMComEM applications. It supports VISA, MasterCard credit card authorization over one of the wireless networks. This enables you to put the vending machine wherever you want without the need for a telephone line. Optional cashless payment systems can be added like, smart-cards (contact or contactless, EMV standard), debit cards (Maestro, PIN card), U-Key, etc..

Intelligent Online Vending

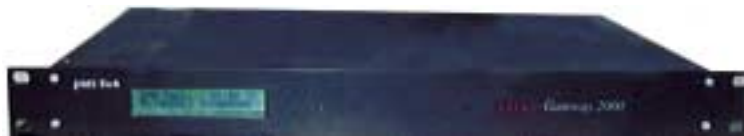
VM Center Products

Gateway Products

DMS Tech has currently one center product, called Gateway 2000. This product is a gateway for all communications with the vending machines in the field (VMCom and VMComEM). It gathers the information received from the vending machines and outputs this information in a readable ASCII format over a serial port to a PC to be able to monitor all events that happen on the wireless network. For the VM-POS it also creates a wired connection to a bank where the authorization is made for the VISA or Mastercard credit cards. Optionally any kind of application can be integrated to these Gateways on customer request.

Gateway 2000-RM

The Gateway 2000-RM is a 19" rack mount version of the gateway products. It includes a Mobitex modem to communicate with the wireless network and a normal dial-up modem to connect to the bank. The data send by the vending machines is encrypted so the gateway takes care of decrypting this data and then decides if this data was statistical information or credit card information. If it is statistical information it is put into a readable ASCII format and transferred to the serial port connected to the PC. If the data is credit card information it creates a bank data packet, which is send to the bank to get authorization for the credit card used and it creates a log in ASCII format, which is transferred to the PC. The authorization information returned by the bank is then encrypted and returned to the correct vending machine. Optionally it is possible to use instead of the Mobitex modem a GSM modem to be able to do the wireless communication over GSM-DATA or GSM-SMS.



Gateway 2000-TT

The Gateway 2000-TT is a tabletop version of the gateway products. It has the same software features as the Gateway 2000-RM, except that the modems need to be connected externally.

