

# Weather Information Systems

To see a more detailed description of our scope of products and services log on to [www.morcom.com](http://www.morcom.com)

## What Morcom has to offer

Established in 1984, MORCOM INTERNATIONAL, INC. has provided a broad range of services to the Federal and commercial marketplace. MORCOM INTERNATIONAL, INC. is a strong, stable, and reputable company with the resources, proven management, leadership ability, and corporate commitment to provide a variety of high-technology products and services to our clients. MORCOM INTERNATIONAL, INC. specializes in the sale of communications and weather information equipment and systems to serve the needs of government and commercial customers. The following examples illustrate the types of systems that we supply:

- High Resolution GVAR, HRPT, and MODIS satellite receiving systems
- WAFS/ISCS terminals
- ATIS systems
- Meteorological message switch
- NAVTEX and Weatherfax receivers

MORCOM is not just a supplier of hardware; our company also offers services such as Information Systems Development, Infrastructure Planning, Network Management and Operations, Radio Communications Systems design, installation, training, and support.

Headquartered in Chantilly, Virginia, MORCOM INTERNATIONAL, INC. is now certified as an 8(a) company by the SBA. This certification offers quick access to our goods & services for government and military buyers.

## Weather Satellite Ground Systems



MORCOM offers a complete line of satellite acquisition and processing system for the real-time reception and display of the polar (POES) and geostationary (GOES) satellites, high-resolution images. The systems are PC-based and operate in an interactive graphics environment. The systems provide capability for tracking and receiving the signals of the NOAA satellites (versions are available for reception of other orbiting satellite transmissions). This equipment is ideal for tracking localized weather systems and viewing meteorological developments accurately.

The hardware is all integrated into a single high-quality PC-type workstation running Windows 2000 or XP.

In addition, we can also furnish state of the art systems for the direct reception of NASA's Terra and Aqua X-band satellites. The broadcasts from these satellites provide free data transmission from the satellite directly to suitable ground stations and are available for the MODIS tool onboard the spacecraft. MODIS data applications include measuring land and ocean surface temperatures, detecting fires, monitoring ocean color for sediment and plankton, and producing global vegetation maps and data for change-detection measurements. The combination of an economical ground station with the free MODIS downlink makes the system attractive for users requiring rapid, regular access to data for a number of scientific, environmental, and operational applications.



# WAFS/ISCS Terminals

Civil Aviation Authorities and weather organizations now have a valuable tool to use for weather forecasting. WAFS is a system for the worldwide broadcast of aviation related weather information via satellite. It is a joint effort of the International Civil Aviation Organization (ICAO), the U.S. Federal Aviation Administration (FAA), NOAA/National Weather Service (NWS), with additional contributions from the World Meteorological Organization (WMO), the United Kingdom, Finland, and Canada. The WAFS global satellite broadcasts have been operational since 1996. It provides a considerable number of valuable information and products such as GRIB Data, T4 Coded charts, OPMET, SPECI, TAF, and SIGMET messages, Satellite images, and BUFR data.

We offer complete WAFS/ISCS solutions. Our systems can be supplied as replacements for existing STAR-4 terminals, or as completely integrated solutions including the VSAT receiving equipment, the workstation, and the processing software. MORCOM has more than 7 years of experience installing and supporting WAFS terminals. We are ready for the new TCP/IP network that is now being implemented throughout the Western Hemisphere.

## ATIS Systems

ATIS refers to Automatic Terminal Information Service. This service which is used in most high traffic airports, is used to automatically transmit to the aircraft recorded non-control information. Its purpose is to improve controller effectiveness and to relieve frequency congestion by automating the repetitive transmission of essential but routine information related to air navigation. In line with our other offerings for the weather aviation user, MORCOM has made available our exclusive E.ATIS system.

The E.ATIS is a state-of-the-art automatic system that converts selected meteorological products and air traffic control information into human speech. E.ATIS uses the most modern technology in software and communication to ensure all the characteristics necessary for error free operation in the Airport environment. E.ATIS primary purpose is to convert ATIS (VOLMET) messages, generated from a variety of sources, into clear and concise human speech for distribution to aircraft and ground stations.

### Technical Service

Our job does not conclude at delivery. MORCOM takes pride in making available to its customers a comprehensive range of technical support options. From installation, telephone assistance, to after sales support services, we make sure that the customer is always satisfied with the investment made. When training of the end user is desired, MORCOM can arrange for on-site operator and maintenance training. Make sure to request these options when contacting us for a quote.

### Systems Design

If you have unique needs, or if you are contemplating the purchase of a complete and integrated system, we can also help you. MORCOM has a staff of communications engineers with experience in these types of systems that can discuss with you the details of your project. We can design and put together a system to satisfy your specific requirements.



*Visit us on the web to see the solutions we offer for:*

- **Wireless communication systems**
- **Weather information systems**
- **IT support**

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