

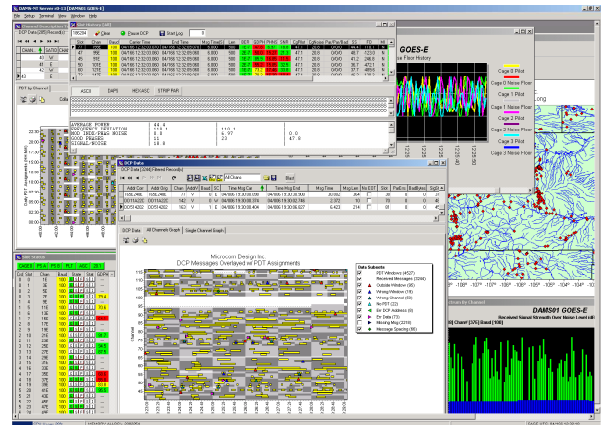


Microcom Design, Inc.

DAMS-NT Software

Direct Satellite Reception Data Management Software for GOES, METEOSAT, and GMS Data Collection Systems

P/N: DT-108-SW



Microcom's DRGS systems with integrated **DAMS-NT Software** enable small, medium, and large users to receive Data Collection signals directly from GOES, METEOSAT and GMS satellites. The **DAMS-NT** software provides complete management of received satellite data from either the Desktop **DigiTrakIV** or the **DAMS-NT** DRGS. Functionality includes system setup; status monitoring; data ingest, processing, storage, and distribution; and DCP platform management. Microcom has deployed similar technology at the NOAA/NESDIS Command and Data Acquisition Station at Wallops Island, Virginia.

Both of Microcom's DRGS systems are complete solutions and include: a receive antenna; a pilot control module; a GPS time source, and either the Desktop **DigiTrakIV** (up to 16 channels) or the **DAMS-NT** (up to 160 channels) demodulators. The **DAMS-NT Software** completes the end-to-end system.

DAMS-NT Management Software Features

System Setup: Simple configuration of **DigiTrak** demods

- Ability to tune any **DigiTrak** demod to any GOES channel at 100, 300, or 1200 bps
- Graphical demod setup and configuration
- Definable timed channel/baud switching

Status: Real time reception status of each **DigiTrak**

- Carrier, symbol synch, and frame synch indicators
- Message quality after end of message
- Pilot, power supplies, and time source health
- Graphical presentation of DCS system status
 - Live channel activity map with transmitted DCP EIRP level over noise floor
 - Live pilot level and noise floor

Data Ingest: Seamless ingest from all **DigiTrak** demods

- Real time reception of DCP data, no post-processing latency; messages can be received with only 0.25 second separation.
- Message time stamping to the millisecond.

Message Monitoring: Live display of message data

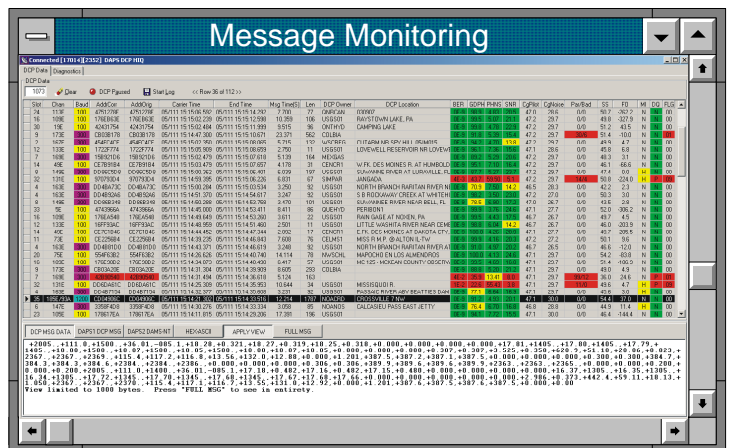
- Filter on ALL messages on a channel, selected DCPs across multiple channels, or all messages received.
- User definable FIFO queue depths allow a quick view of data back in time.
- View just message information and message quality statistics summary, or ...
- View all message data and performance parameters; including parity errors and prohibited characters in ASCII and/or HEX.

Data Processing: Powerful message processing tools

- DCP address error detection and correction.
- Optional conversion of pseudo-binary data.

Data Output: Distribute data via multiple methods

- Output to flat files in DAPS I, DAPS II, or Microcom's full precision message statistic format.
- Storage of all message data and quality statistics to SQL database.
- Real time TCP/IP socket connection per the NOAA DAPS II ICD, or using additional socket connection for Microcom's extended high quality data feed.

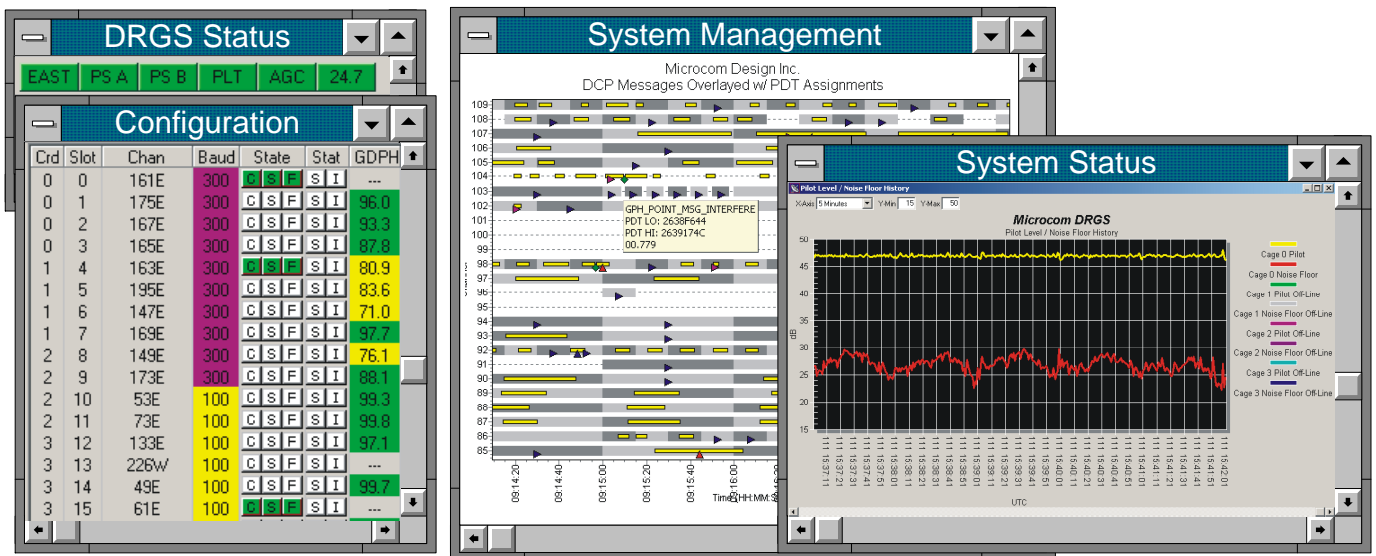
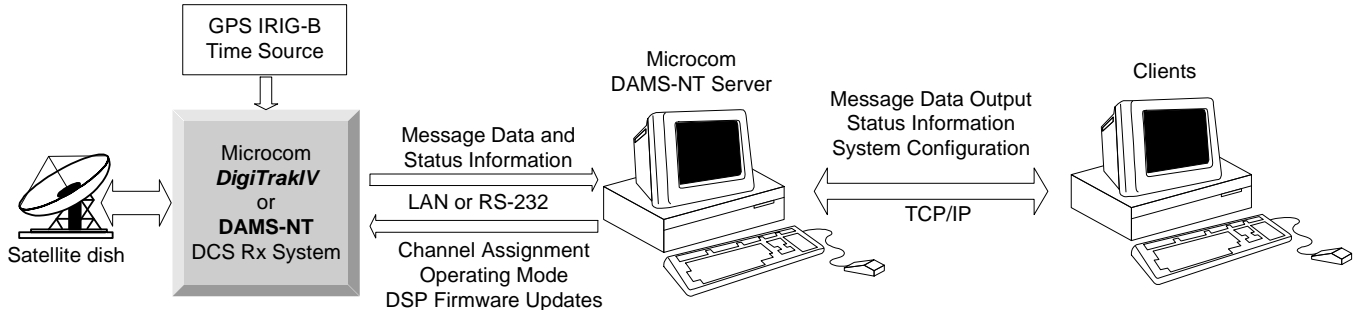


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DAMS-NT Management Software Continued

System Management: Tools to manage data and DCP's

- GUI interface to view and edit UDT (User Description Table) and PDT (Platform Description Table) tables.
- Graphical view of PDT channel time assignments overlaid with real-time or recalled DCP data.
- With PDT information, further analysis includes:
 - Messages outside defined windows
 - Wrong window and/or channel
 - No defined PDT or missing message
 - DCP address or message data errors
 - Message spacing (close to interfering)
- Mapping of DCP's location using PDT Lat/Long

The diagram above shows a typical Microcom DRGS system. Regardless of the end-user's choice of Microcom DRGS hardware and channel size, the system control and monitoring software is the same as that used by NOAA at

the Wallops Island station. However, Microcom has extended the message dissemination, status monitoring, and system management capabilities by incorporating powerful graphical and database utilities.

Sensor conversion information is stored in the station set up files. The basic DAMS-NT software provides numerous self-diagnostic functions based on both DRGS operating parameters and/or on DCP information.

Standard System Components:

- DAMS-NT Management Software
- PC: Desktop or rack mount running Windows XP (One PC supports 1 to 160 channels)
- Requires DigiTrakIV or DRGS DAMS-NT hardware

Optional/Additional Components:

- SQL Server 1 Client License
- Programming solutions include data presentation and custom decoding.
- Installation and Training Services available.

ORDERING INFORMATION

Order with either **Desktop DigiTrakIV** or **DAMS-NT System**: Specify Number of Channels
Specify desktop or rackmount PC for **DAMS-NT Server DRGS Base Station Software**