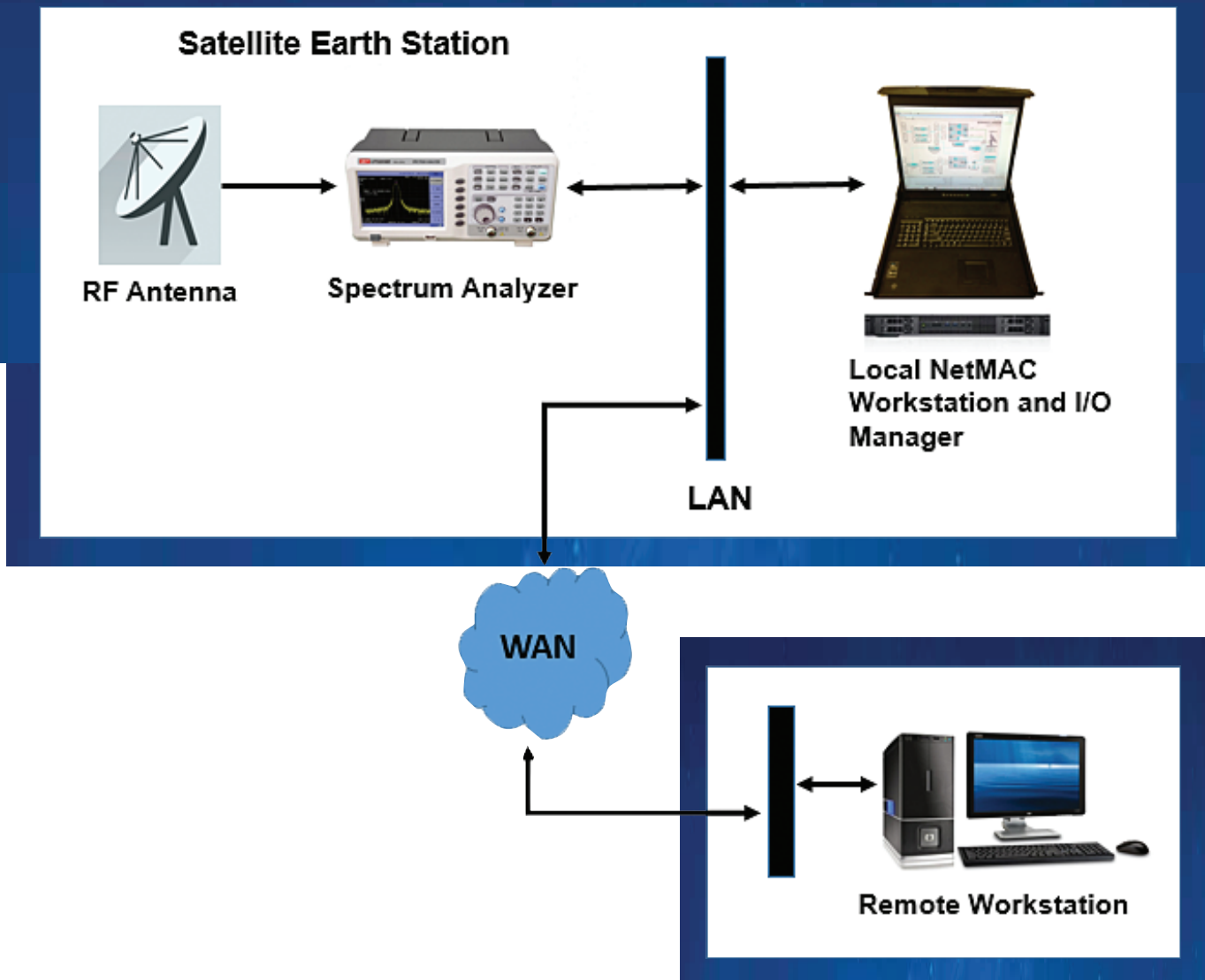


NetMAC™ Carrier Monitoring



The NetMAC™ Carrier Monitoring Software was designed to make it easy for a user to enter carrier parameters and have the system compute the Power Level, Noise Floor, C/N Ratio, and EIRP (if applicable). It can either loop through all active carriers or continuously scan a selected carrier.

NetMAC™ Carrier Monitoring

CARRIER MONITORING

Carrier Monitoring Status

USER DELAY [Progress Bar]

SUSPEND CM

RESUME CM

Name	Number	Center Frequency	PORT
CarrierC	3	1100.0000MHz	PORT3

	Current Value	Status
Power (dBm)	-11.73	■
EIRP (dBW)	0.00	■
CN Ratio	71.70	■
Noise Floor (dBm)	-83.43	■

Alarm Limits	
Low	High
-80.00	10.00
0.00	0.00
-900.00	
	-60.00

FEATURES:

- Automated measurement of power, C/N ratio, noise floor and EIRP
- Built-in history collection capability
- Configured to handle up to 100 carriers (can be factory modified to handle even more)
- User definable alarm set points that are color coded for easy visual interpretation
- Low cost alternative

NetMAC™ Carrier Monitoring

Number	Name	Center Freq	Power Level	EIRP Level	C/N Ratio	Noise Floor	Scan Date	Scan Time
1	Carrier 1	30.	-29.447	-56.825	27.606	-57.061	10/29/04	18:36:31
2	Carrier 2	60.	-29.447	-56.827	27.606	-57.061	10/29/04	18:36:22
3	Carrier 3	90.	-29.447	-56.830	27.606	-57.061	10/29/04	18:36:19
4	Carrier 4	120.	-29.447	-56.832	27.606	-57.061	10/29/04	18:36:24
5	Carrier 5	150.	* -29.447	0.000	27.606	-57.061	10/29/04	18:36:25
6	Carrier 6	180.	-29.447	-56.837	27.606	-57.061	10/29/04	18:36:27
7	Carrier 7	180.	* -29.447	* -56.837	27.606	-57.061	10/29/04	18:36:22
8	Carrier 8	150.	0.000	0.000	0.000	0.000		
9	Carrier 9	120.	-29.447	-56.832	27.606	-57.061	10/29/04	18:36:28
10	Carrier 10	120.	0.000	0.000	0.000	0.000		
11	Carrier 11	180.	-29.447	0.000	27.606	-57.061	10/29/04	18:36:20
12	Carrier 12	15.	-29.447	0.000	27.606	-57.061	10/29/04	18:36:26
13	Carrier 13	90.	-29.447	0.000	27.606	-57.061	10/29/04	18:36:26
14	Carrier 14	60.	-29.447	0.000	27.606	-57.061	10/29/04	18:36:23
15	Carrier 15	195.	0.000	0.000	0.000	0.000		
16	Carrier 16	330.	-29.447	0.000	27.606	-57.061	10/29/04	18:36:27
17	Carrier 17	230.07	-29.447	-56.842	27.606	-57.061	10/29/04	18:36:29
18	Carrier 18	230.012	-29.447	0.000	27.606	-57.061	10/29/04	18:36:21
19	Carrier 19	408.012	-29.447	0.000	27.606	-57.061	10/29/04	18:36:24
20	Carrier 20	308.012	-29.447	0.000	27.606	-57.061	10/29/04	18:36:21
21	Carrier 21	308.012	-29.447	0.000	27.606	-57.061	10/29/04	18:36:29
22	Carrier 22	528.012	0.000	0.000	0.000	0.000		
23	Carrier 23	617.	* -29.447	0.000	27.606	-57.061	10/29/04	18:36:30
24	Carrier 24	618.	* -29.447	0.000	27.606	-57.061	10/29/04	18:36:30

The carrier records displayed are color-coded; red indicating that an alarm condition exists, yellow if inactive, and black otherwise. If an alarm condition exist for a particular carrier, an asterisk is placed in the table before the value (Power Level, EIRP, C/N Ratio or Noise Floor) that is in the alarm state.

This dialog is set to update every time a carrier's information updates via the system.

NetMAC™ Carrier Monitoring

	Number	Name	Inactive	Center Freq	Reference Level	Freq Span	Marker Delta	S
1	1	Carrier1		2500.	-50.	100.	4.	LO
2	2	Carrier2		1550.125	-45.	100.	4.	LO
3	3	Carrier3		2250.25	-47.	50.	3.5	LO
4	4	Carrier4		3525.	-50.	100.	4.	LO
5								
6								
7								
8								
9								

The Define Carrier dialogue allows the user to set up the specifics of multiple carriers.

The carrier information is stored in the NetMAC database. Many carriers can be predefined, and the software will automatically scroll through each, setting the appropriate switch position and commanding the spectrum analyzer to the defined settings.



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PARAMETERS

NUMBER	Designator for reference. 1-100 (Can be factory configured to allow more)
NAME	Descriptive designator for carrier
SWITCH POSITION	Port on matrix or other switch (optional) the signal is routed through
EIRP CALIBRATION	Optional parameter that allows predefined EIRP parameters to be selected on a per antenna basis
REQUIRED POSITION	Selection that limits the scanning of carriers to predefined groups
CENTER FREQUENCY (MHz)	Frequency at which peak of the carrier signal is found
REFERENCE LEVEL (dBm)	Spectrum analyzer display parameter
FREQUENCY SPAN (MHz)	Spectrum analyzer display parameter
MARKER DELTA (MHz)	Center frequency + marker delta is used to compute the noise floor
SCALE LOG (dB)	Choice between linear and logarithmic
ALARM CONDITION LIMITS	User configurable alarm set points for power level, EIRP, low C/N ratio and noise floor
ATTENUATION	Spectrum analyzer display parameter
OCCUPIED BANDWIDTH (Hz)	Spectrum analyzer display parameter
VIDEO BANDWIDTH (Hz)	Spectrum analyzer display parameter

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The data should be used for basic information only.
Formal, controlled specifications may be obtained from CPI for use in equipment design.



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