

Each RF modules are grounded to the RF subrack with the a contact spring when it is housed in the subrack.

5. Power Tune-up Procedure

The output power of the UltraWAVE BTS is controlled by the BTS system software. There is no hardware adjustment for power setting. Under the normal operational condition, the maximum output power is automatically set to 50W(+47dBm) at the antenna port for all transmitter channels.

When the system operator need to change the power setting at the BTS, change can be made through the software commands from the remote operation & control center or from the local Craft PC. The power level is controlled down to -12 dB (+35dBm) from the maximum power in 2 dB steps (6 levels).

The output power level at the highest and lowest channel frequency (Channel #128:869.2MHz and Channel #251:893.8MHz) is automatically limited to 8W(+39 dBm) by the software in order to meet the FCC spurious requirement at the band edge frequencies (869.0MHz and 894.0MHz). This limitation only applies to these two channels and all other channels are set with nominal 50W(+47dBm).

6. Glossary

BB:	Baseband
BER:	<u>B</u> it <u>E</u> rror <u>R</u> ate
BSC:	<u>B</u> ase <u>S</u> tation <u>C</u> ontroller
BSS:	<u>B</u> ase <u>S</u> tation <u>S</u> ystem
BTS:	<u>B</u> ase <u>T</u> ransceiver <u>S</u> tation
DSP:	<u>D</u> igital <u>S</u> ignal <u>P</u> rocessor
GSM:	<u>G</u> lobal <u>S</u> ystem for <u>M</u> obile Communication
GMSK:	<u>G</u> aussian <u>M</u> inimum <u>S</u> hift <u>K</u> eys
I2C:	<u>I</u> nter- <u>I</u> ntegrated <u>C</u> ircuit, name of serial bus
LNA:	<u>L</u> ow <u>N</u> oise <u>A</u> mplifier
PS:	<u>P</u> ower <u>S</u> upply
TDM:	Time Division Multiplexing
VME:	Name of computer bus

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interWAVE UltraWAVE BTS Power Tune-up Procedure

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2. Glossary

BTS: Base Transceiver Station

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