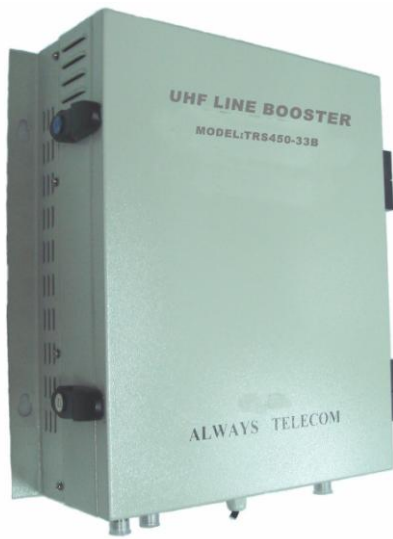


UHF LINE BOOSTER

MODEL NO. TRS450-33B

ALWAYS TELECOM



FEATURE

Auto Gain Control

Auto Level Control

Waterproof IP53 / IP55 option

Alarm Display

* AGC out of range

* AC/DC power failure

* HPA failure

RS-232 Local Control

Push Button Manual Gain Control

AC input 90~240V auto Switch



ITEM		SPECIFICATION
Frequency Range	Up Link	450 MHz
	Down Link	460 MHz
Bandwidth / channel spacing		1MHz/2MHz/4MHz
System Gain		UL: $\geq 40\text{dB}$ DL: $\geq 40\text{dB}$
AGC Gain control		common control with DL / UL
Automatic Gain control		$\geq 20\text{dB}$
Gain control rang		$> 31\text{dB}$ at 1dB step
Out of band Gain/ Emission	$2.7 < F \text{ offset} < 3.5$	$60\text{dB} / < -14\text{dBm} / 30\text{kHz}$
	$3.5 < F \text{ offset} < 7.5$	$45\text{dB} / < -26\text{dBm} / 30\text{kHz}$
	$7.5 < F \text{ offset} < 12.5$	$45\text{dB} / < -26\text{dBm} / 30\text{kHz}$
	$12.5 < F \text{ offset}$	$35\text{dB} / < -13\text{dBm} / 1\text{MHz}$
Spurious Emission UL / DL	$9\text{kHz} \sim 150\text{kHz}$	$< -36\text{dBm} / 1\text{kHz}$
	$150\text{kHz} \sim 30\text{MHz}$	$< -36\text{dBm} / 10\text{kHz}$
	$30\text{MHz} \sim 1\text{GHz}$	$< -36\text{dBm} / 100\text{kHz}$
	$1\text{GHz} \sim 12.75\text{GHz}$	$< -15\text{dBm} / 1\text{MHz}$
Return Loss (VSWR)		$> 15\text{dB}$ (1.5:1)
Flatness		3dBp-p
Frequency stability		$\leq \pm 0.01\text{ppm}$
Max Down link power		$\geq 33 \text{ dBm}$ (2 watt)
Max' Uplink power		$\geq 5 \text{ dBm}$ (3mw)
Input power range		$-5\text{dBm} \sim +10\text{dBm}$
Group delay		$< 5\mu\text{s}$
Noise Figure at max' Gain		$\leq 5\text{dB}$
MTBF		$> 50,000. \text{H}$
ACLR		$45\text{dBc} @ \pm 5\text{MHz}$
		$50\text{dBc} @ \pm 10\text{MHz}$
Error Vector Magnitude(EVM)		$\leq 12.5\%$
Peak Code Domain Error(PCDE)		$\leq -35\text{dB}$
Weight		$\leq 20 \text{ Kg}$
I/O Connector		N-Type female
Operating Temperature		$0 \sim +50^{\circ}\text{C}$
Environment Condition		IP53 / IP55 option
EMI		IEC/EN60 950 Approve
EMC		3GPPTS25.113 Approve
Power Consumption		45W
Power Supply		AC 90~240V 60Hz $\pm 10\%$