

Warnings to be added to the user guide of SATEL-TA18 radio modem module➤

WARNING! Users of SATELLINE-EASy Pro 35W radio modems in North America should be aware, that due to the allocation of the frequency band 406.0 – 406.1 MHz for government use only, the use of radio modem on this frequency band without a proper permit is strictly forbidden.

Warning – RF Exposure

"Warning: To comply with FCC RF exposure compliance requirements, a separation distance of at least xx cm must be maintained between the antenna of this device and all persons. This device must not be co-located or operating in conjunction with any other antenna or transmitter."

Modification warning statement

"Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."

Class B digital device statement

"Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help."



Safe distances for General Public Use

$$R = \sqrt{\frac{PG}{4\pi(f/150 W/m^2)}}$$

Due to numerous different applications, it is reasonable that users are not always aware of parameters of all components in a SATEL-TA35 radio modem system. However, obeying the safe distances in the table below, every user can easily fulfil the Canadian authority limit (depends on the frequency in use) for human exposure to radio frequency radiation in general public use.

Radio Modem Model		Minimum safe distance to the antenna For General Public use
SATEL-TA18	⇒	105.9 cm

Safe distances for Controlled Use

Calculated by formula below:

$$R = \sqrt{\frac{PG}{4\pi(f/30 W/m^2)}}$$

Minimum distance however being always at least 20 cm.

Advanced users and system designers who are fully aware of key parameters of SATEL-TA35 radio modem system are allowed to follow the safe distances for controlled use listed in the table below.

Tx output power [W]	Antenna system gain [dBi / numeric]	Tx duty cycle [%], 6 min. average	Frequency [MHz]	Minimum safe distance [cm]
35	8 / 6.310	100	470	236.8
		50	470	167.5
		20	470	105.9
		10	470	74.9
	6 / 3.981	100	470	188.1
		50	470	133.0
		20	470	84.1
		10	470	59.5
	2 / 1.585	100	470	118.7
		50	470	83.9
		20	470	53.1
		10	470	37.5
25	8 / 6.310	100	470	200.2
		50	470	141.5
		20	470	89.5
		10	470	63.3

	6 / 3.981	100	470	159.0
		50	470	112.4
		20	470	71.1
		10	470	50.3
	2 / 1.585	100	470	100.3
		50	470	70.9
		20	470	44.9
		10	470	31.7
15	8 / 6.310	100	470	155.0
		50	470	109.6
		20	470	69.3
		10	470	49.0
	6 / 3.981	100	470	123.2
		50	470	87.1
		20	470	55.1
		10	470	38.9
	2 / 1.585	100	470	77.7
		50	470	54.9
		20	470	34.7
		10	470	24.6
10	8 / 6.310	100	470	126.6
		50	470	89.5
		20	470	56.6
		10	470	40.0
	6 / 3.981	100	470	100.6
		50	470	71.1
		20	470	45.0
		10	470	31.8
	2 / 1.585	100	470	63.4
		50	470	44.9
		20	470	28.4
		10	470	20.1
5	8 / 6.310	100	470	89.5
		50	470	63.3
		20	470	40.0
		10	470	28.3
	6 / 3.981	100	470	71.1
		50	470	50.3
		20	470	31.8
		10	470	22.5
	2 / 1.585	100	470	44.9
		50	470	31.7
		20	470	20.1
		10	470	20

