

Installation Manual of 700MHz UHF
Transceiver
P07-1111-2-24

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1. Before you unpack the box, please check if there are one P07-1111-2-24 transceiver and one mounting bracket inside.
2. To install the transceiver onto a mast, you will need:
 - a. An indoor power inserter/adaptor (provided by TSI)
 - b. A 75 ohm coaxial cable (RG 6, RG 7 or RG 11) to run up the mast to the transceiver
 - c. A 75 ohm UHF Yagi antenna of proper gain
 - d. A short 75 ohm (RG-59, RG 6, RG7 or RG 11) coaxial cable to connect the transceiver with the antenna
3. Installation: (refer to Fig. 1)
 - a. Install the Yagi antenna onto the mast.
 - b. On the same mast use the included mounting bracket to install the transceiver
 - c. Connect the transceiver's antenna port to the Yagi antenna by a short 75 ohm Male-to-male coaxial cable. Use a water-proof tape to seal the transceiver's F-connector port.
 - d. Connect the DC+IF port of the transceiver to where the wireless modem is indoors by a long 75 ohm coaxial cable. Also use a water-proof tape to seal the transceiver's F-connector port. Note that unless the modem can power the transceiver through the coaxial cable, you will need to install the wall mount adapter/power inserter (provided by TSI) between the transceiver and the modem.
 - e. Turn on the power adapter and use either the modem's utility software or a CATV signal strength meter to align the Yagi antennas' direction toward where the headend antenna site is to get the strongest downlink signal.
 - f. Fix the antenna direction. Install the necessary anti-lightning grounding rod to protect lightning strike.

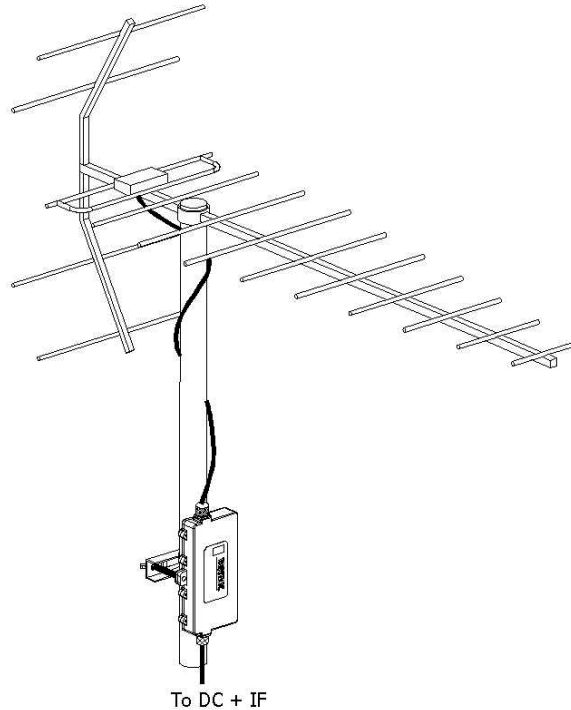


Fig. 1: Installation of transceiver with UHF Yagi antenna

NOTE: Cable modem “Channel Size” settings must be configured so that channel center frequencies at band edge will meet the limits in the following table:

Data rate kSym/sec	Lowest fc QAM	Hi ghest fc, QAM	Low est fc, QPSK	Hi ghest fc., QPSK
320	710.4 MHz	715.6MHz	710.3 MHz	715.6 MHz
640	710.7 MHz	715.4 MHz	711 MHz	715.5 MHz
1280	711.7 MHz	715.1 MHz	712 MHz	715.1 MHz

FCC RF Exposure Information:

The licensee is responsible for determining that antenna installation will result in RF exposure levels to persons being in compliance with the requirements of section 1.1307 of FCC Rules.