

Compliance to 15.407(c)
HZB-U58-S60

The HZB-U58-S60 unit is a subscriber unit that operates in a point-to-multipoint network. It only transmits under the following conditions:

- a) The subscriber unit has received information at its Ethernet interface that is addressed to a destination accessible through the base station. The subscriber unit then transmits a reservation request to base station. The base station will respond with a time slot assignment, of finite duration, for the subscriber unit to transmit the data.
- b) The base station will periodically "poll" the subscriber units by requesting the subscriber unit to transmit a time slot of pseudorandom data. This is performed to maintain inbound synchronization and power control for each subscriber unit.
- c) The Control Processor in the subscriber unit only enables dc power to the transmitter circuitry if the following operational conditions are met:
 - (i) The frequency synthesizers are locked.
 - (ii) The subscriber unit receiver is operational and has correctly demodulated a valid control message from the base station during the previous 7.5-ms frame interval.
 - (iii) The transmitter output power is below its allowable limit, as determined by coupling and detecting the output signal and comparing the detector output with a calibrated threshold voltage.
 - (iv) The Control Processor is responding to interrupts as expected (checked by a watchdog timeout).
 - (v) The modem, data buffer, and Ethernet interface is processing data without checksum or synchronization errors.

Therefore, it is shown that the subscriber unit will automatically discontinue transmission in the absence of information to transmit or operational failure to ensure compliance with 15.407(c).