

**PRODUCT AND OPERATIONAL DESCRIPTION:  
SIEMENS GIGASET 2420 DESK STATION**

**1.0 General Description**

The Siemens Gigaset 2420 Desk Station is the base unit of the Siemens Gigaset 2420 Small Office/Home Office (SOHO) phone system. This system is comprised of one base station per system and up to eight (8) wireless handsets. The Desk Station is powered by an AC to DC conversion module and has an interface for connection to the public telephone utility.

Communication can be made between the handsets, between the Handsets and the Desk Station, and between system components and telephone utility. All communications for the Gigaset 2420 System are routed through the Desk Station (even for handset to handset communication).

**2.0 Wireless Description**

Wireless communications for the Gigaset 2400 SOHO System are accomplished using a low power frequency hopping spread spectrum technique. This link is compliant with Part 15.247 of the Rules.

The spread spectrum link operates over 96 channels in the 2400 MHz band. The typical output power of the unit is 0.25 watts with an individual channel bandwidth of 700 kHz at 3 dB down and 850 kHz at 20 dB down. Hopping of the frequency over this band is based on a pseudo-random code coordinated between the handsets and the base unit. Handsets establish coordination with the base unit during the power-on cycle. This process prevents inadvertant connection of other Gigaset 2400 Handsets to a specific network that they are not intended to operate with.