

Ascom Wireless Solutions, Inc

DCT1900 Freeset Overview

SpectraLink Comparison Response

System Overview	<p>The Freeset DCT1900 is an adjunct wireless system operating in the FCC designated PCS (U-PCS) band of 1920-1930 MHz. This system was originally developed by Ericsson and released in 1997. Ascom Tateco, a Swedish based company, purchased the product line in April 2000 to include all assets and intellectual property. Ascom Tateco is a global market leader for many in-building wireless products and has been selling the Ericsson DECT (European version) in-building wireless product since its release. Ascom manufactured and distributed its own handsets with the DECT product in markets outside the US prior to the acquisition.</p>
PBX Integration	<p>The Freeset DCT1900 system supports standard analog, Line Side T1 CAS (24 phones per port minimizing the number of cards in the PBX), E1 and digital interfaces to Nortel and Lucent PBX's. Additional digital interfaces are being developed and scheduled for release 2nd Qtr 2001. When a Mobility Server is used, the PBX interface is accomplished with either a PRI or Q-sig connection. This creates a virtual trunk group that is sized based upon traffic engineering thus eliminating the need for a port in the PBX for every handset in use.</p>
PBX Features	<p>Most common PBX features can be accessed via the menu function to simplify features such as hold, transfer and conference. Additionally, a 500 dial by name list can be programmed into each handset by downloading from a text file. Calling line ID, message waiting and multiple line appearances are available when using the Mobility Server or the digital interface. Calling line ID and message waiting are also available when using the E-1 interface.</p>
Handset Design	<p>The Ascom DT 620 handset is based upon a widely accepted lightweight design that supports a 3 x12 display with scrolling capability. The battery options include the HiCap with 12 hours talk time and 40 hours standby. The DT 620 also comes with numerous accessory options such as the docking station (full duplex speakerphone), headset adapters, carrying cases and rack chargers for batteries.</p>
System Capacity	<p>The Freeset DCT1900 system can support up to 600 users with any PBX that supports T1 CAS or E1 CAS, up to 120 base stations and 60 simultaneous calls in a single Radio Exchange. Multiple systems can be networked together using a Mobility Server to exceed any of the stated parameters. The system is scalable from 10 users to several thousand users. This scalability allows the system to grow modularly continuing to use the existing infrastructure. The Mobility Server can be added to the system utilizing the existing Radio Exchange, Base Stations and Handsets.</p>
Remote Networking	<p>Ascom can network multiple systems utilizing the Mobility Server. These systems can be located across town or in another state. Additionally, utilizing the PUN Selection capability in the menu, handsets can be programmed to work on multiple DCT1900 systems.</p>

System Engineering Ascom utilizes both floor plan analysis and site surveys to determine the number and location of base stations. The first step of the system configuration is the analysis of the floor plans. In some cases, Ascom also recommends the use of a site survey. When floor plans are analyzed, certain assumptions are made about constructions materials and frequency penetration. The site survey allows the assumptions to be tested and verified. Reconfiguration or remodeling situations can be handled in the same manner, floor plan analysis or site survey.

Base Stations The Ascom base station supports eight simultaneous calls. Multiple base stations can be deployed in the same cell area to increase the number of simultaneous calls available. Up to eight base stations can be deployed in this manner to provide 60 simultaneous calls in the same area. This is demonstrated in the configuration of the systems installed at most of the Chicago area Stock Exchanges where density and encryption are required.

Applications Interface Ascom supports Short Message Service capability and interfaces with text message generating devices that support TAP 1.8 protocol. Each message can be up to 100 characters and each handset can store up to 10 messages. Ascom has tested and verified integration with most nurse call systems on the market.

Standards The Ascom DCT1900 System is compliant with EIA/TIA 662, the industry standard for in building wireless products in the US. This standard is also known as Personal Wireless Telephony or PWT.

Installed Base There are currently approximately 600 systems installed in North America.

Product Commitment In addition to focusing on supporting the installed base, Ascom has both a short and long-range development plan for product enhancements. It is Ascom's commitment that current systems can be upgraded to take advantage of future developments without forklift upgrades or a massive equipment change out. Since acquiring the product line, Ascom has completed and release the SMS/Nurse Call Integration project and the digital interface project for Nortel and Lucent PBX's. The Ascom Product Road Map is second to none and will not leave behind the current installed base.

Additional Info www.ascomwireless.com