WFA-Z Adapter

At a Glance

- Converts NEC's UNIVERGE DT750, DT730G and DT730 Series IP desktop telephones into a wireless device

- Allows placement of telephones virtually anywhere within range of an office's wireless network

- Eliminates the need and cost of additional wiring and a dedicated wired Ethernet connection

- Connects easily to the bottom of the telephone

- Enables single and mass configuration setup through the built-in GUI or the optional configuration tool

- Utilizes the international wireless CCA empty channel detection technology to alleviate channel interference and improve performance

Overview

In today's ever changing environment, your business needs to be agile to grow and be competitive. Your communication tools and devices need to be adaptive as well to meet your changing requirements.

NEC's UNIVERGE IP Desktop Telephones have always allowed you to tailor the device to meet an individual employee's role, but now with the WFA-Z Adapter, it enables you place it in a location that best suits their needs. The WFA-Z Adapter converts your new or existing wired desktop IP telephone into a wireless one that can be placed virtually anywhere

within range of your wireless network. It eliminates the expense of adding more wiring and Ethernet connections as well as having to replace an existing telephone.

This capability enables you to add new extensions or move existing telephones easily and economically. By utilizing your existing wireless network, you can extend your NEC telephone system throughout your business while gaining added flexibility.

Solution

NEC's WFA-Z Adapter is an optional accessory for the UNIVERGE DT750, DT730G and DT730 Series IP Desktop Telephones. It easily installs in the expansion slot underneath the telephone and converts your wired desktop telephone into a wirelessly connected one. With the WFA-Z Adapter, you will now have the freedom to place your IP telephones in any location within range of your wireless network to meet your specific business requirements.

The WFA-Z Adapter can connect at wireless transmission rates of up to 150 Mbps and has a built-in smart antenna which allows for strong reception/transmission of wireless signals. Using the latest

international wireless Clear Channel Assessment (CCA) empty channel detection technology, it automatically adjusts its bandwidth mode to avoid channel interference and to ensure connection quality.

It is 802.11b/n/g compatible and offers the best in security measures, including WPA/WPA-PSK and WPA2/WPA2-PSK protocols. It also has a USB port for easy configuration or firmware upgrade using a USB memory or an optional external USB Wi-Fi antenna for extended range capability.

Easy Installation and Configuration

Installation is easy! Simply plug the special short cable provided into the PH Port on the WFA-Z Adapter, snap the adapter into the back of the telephone and connect the short cable to the telephone's LAN port. Once it is powered up, there are two LEDs that provide you with the current mode of the adapter.

Configuration is just as easy. NEC provides you with two methods by which you can configure the adapter – through the WFA-Z Adapter's built-in web GUI or the special PC-based configuration tool. Both methods allow you to configure the wireless connection, update firmware, view status, view available wireless networks, configure the LAN, plus more.

Potential Areas of Use

There are many places and scenarios where the WFA-Z Adapter can be beneficial. Here are just a few suggestions:

- Hotel Lobby or Hallways – enhance guest experience by placing an NEC IP telephone with wireless adapter where guests can most easily access it. With the wireless capabilities, the phone no longer needs to be placed next to the wall and there is no longer a need to hide cables.

- Construction Areas – improve communications throughout a work site by locating IP telephones with wireless adapters where there is no cell coverage or where wired cables may not be readily accessible. Reliable communications are critical in these areas to ensure responders are just a phone call away in the event of an emergency.

- Warehouse Environments – increase telephone coverage where there is a lot of open space without a viable way to string cables to all areas of the facility. These unique environments can now have telephone coverage in all locations throughout the building.

- Older Buildings – eliminate the need for costly re-wiring of an entire building that has a limited amount of wiring to support the telephone coverage that is required. By utilizing telephones with the WFA-Z Adapter, installation of telephones is much more economical.

Product Specification

Features	Notes
Frequency	2.4 ~ 2.4835GHz
Standard	IEEE 802.11g, IEEE 802.11b, CSMA/CA with ACK, used with IEEE 802.11n(draft 2.0)
Wireless Speed	11n: the highest data rate can reach to 150Mbps 11g: 6/9/12/18/24/36/48/54Mbps(Dynamic) 11b: 1/2/5.5/11Mbps (Dynamic)
Channels	1~13
Data Modulation	11b: CCK, DQPSK,DBPSK 11g: OFDM 11n: OFDM with PSK, BPSK, 16-QAM, 64-QAM
RF Power	20dBm (Maximum)
Encryption	WPA/WPA-PSK, WPA2/WPA2-PSK Encryption
Security	WPA/WPA-PSK, WPA2/WPA2-PSK Encryption, No Authentication
Authentication	Pre-Shared Key, EAPTLS and PEAP-MSCHAPv2
RF Gain	2dBi Internal Smart antenna
LED Indicators	Two LEDs provide status and Wi-Fi connection indication
Built-In Web GUI	For configuration and management
USB Port	For optional configuration or firmware upgrade method using USB memory stick, or optional external USB Wi-Fi antenna for extended range capability
Environmental Conditions	Operating Temperature: 0 to 40 Celsius Storage Temperature: -20 to 60 Celsius Operating Humidity: 10% to 90% RH Storage Humidity: 10% to 90% RH
Range	Indoors: 50-100m (open air, theoretical value)
Configuration Tool	Optional PC application for quicker and easier configuration of the WFA-Z Adapter

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