



VoIP

The WIN® 440IP system server offers a comprehensive approach for migrating to VoIP telephony. The 440IP is a traditional and converged systems platform that provides a unique foundation for today's VoIP business opportunities. Its unmatched dynamic flexibility unites your current data network into a converged environment. You have control of your business VoIP model and can choose to add VoIP in a step-by-step approach as your business needs dictate.

WIN® Communications Corporation truly delivers on the VoIP product commitment. The guarantee of the convergence brings your business and company-wide communications applications together into one manageable business VoIP model.

Imagine the ability to achieve connectivity with your company office from any location in the world. Whether at home or a remote site, use your phone as an actual 440IP extension of your corporate office. Each individual location has virtually the same features as an extension in the corporate office.

For the business that requires total connectivity, the 440IP networks multiple offices. You instantly communicate and effectively create one large VoIP network system. The WIN® 440IP system server can help take full advantage of the VoIP business model.

Easy To Manage System Platform That Delivers

- Support companies of all sizes, from 8 up to 440 ports with the flexibility of adding various offices and virtual work members
- Add IP elements to your company business model without completely overhauling the company infrastructure
- Allow the sharing of applications, data, network resources and management tools anywhere in the WIN® 440IP network
- Overall reduce cost and enhance operational efficiency of company-wide communications business model
- Offer a complete profile of both telephony applications and hardware you can add to your company as your business grows and changes



VoIP Specifications:

VoIP Digital Telephone Station Sets:

32 D-Tel-440IP 32 S-Tel-440IP
 20 D-Tel-440IP 20 S-Tel-440IP
 Digital telephone migrates to IP with IP Adapter add-on module.

VoIP Software:

CPU-48 Central Processor Version 7.00
 CPU-96 Central Processor Version 7.00
 CPU-128 Central Processor Version 11.00
 CPU-440 Central Processor Version 11.00

VoIP Hardware:

IPSTTK-440IP - IP Station/Trunk blade: Programmable in software to support 16 IP stations or 24 Channels. Mounts in universal slot in the WIN® 440IP server. Supported by the 48, 96, 128, & 440 processor blades. IP networking requires the 128 and 440 processor blades.

IPADAP-440IP - IP Adapter: Station IP add-on module for the telephone. IP adapter is available to use with all WIN® 440IP digital telephones. Supported by the 48, 96, 128, & 440 processor blades.

IP Station/Trunk Card	Processor	Intel IPX 425 XScale Network Processor		
	Digital Signal Processor	TI TMS320VC5441GGU		
	Operating System	Linux		
	Software Technology	C++		
IP Adapter	Processor	TI TNETV1055 RISC IP Phone Processor		
	Digital Signal Processor	TI TMS320C55X embedded		
	Operating System	VX-Works		
	Software Technology	C++		
IP Session Technology	WIN® Proprietary	For support of WIN® digital Instruments		
	Session Initiation Protocol (SIP)	Basic Telephone Support (RFC 3261)		
Supported Codecs	IP Station Trunk Card			
		Codec Type	Compression Rate	Compression Type
	Trunk Side	G711	64Kbs	u-Law companding
		G729	8Kbs	Conjugate Structure-Algebraic Code Excited Linear Prediction (CS-ACELP)
		G726	32Kbs	Adaptive Differential Pulse Code Modulation (ADPCM)
	Station Side	G711	64Kbs	u-Law companding
		G726	32Kbs	Adaptive Differential Pulse Code Modulation (ADPCM)
	IP Station Adapter			
		G711	64Kbs	u-Law companding
		G726	32Kbs	Adaptive Differential Pulse Code Modulation (ADPCM)
	SIP			
		G711	64Kbs	u-Law companding
		G726	32Kbs	Adaptive Differential Pulse Code Modulation (ADPCM)
	Bandwidth Requirements		Typical	Maximum
G711		96Kbs	128Kbs	
G729		26Kbs	40Kbs	
G726		32Kbs-48Kbs	80Kbs-96Kbs	
Quality of Service Support	Jitter Buffer	G711	0-128ms	
		G729	0-500ms	
		Echo Cancellation	64ms	
	Voice Activity Detection	Valid voice Threshold	20dbm to +10dbm	
Noise Suppression Threshold		30dbm		
Network Protocol Support	IP Station/Trunk Card	TCP, UDP, ICMP, ARP, RTP, RTCP, DHCP Server		
	IP Station Adapter	TCP, UDP, ICMP, ARP, RTP, RTCP, DHCP Client		

Specifications subject to change without notice. Some features are optional, require additional equipment or are available at a future date. WIN® is a registered trademark of WIN® Communications Corporation. Copyright 2005 by WIN® Communications Corporation. All rights reserved.

WIN® Communications Corporation

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