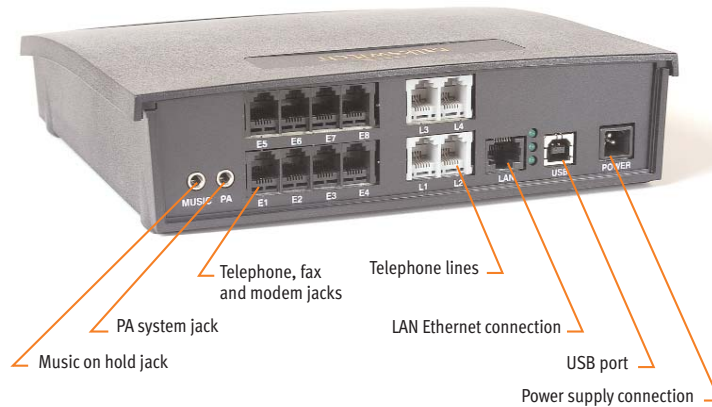


technical specifications

TalkSwitch Systems



TalkSwitch is the compact, all-in-one telephone system designed for small and multi-location business. It is a hybrid analogue/IP PBX with built-in analogue PSTN telephone line (FXO) and analogue extension (FXS) ports, IP extension codecs, voicemail, music on hold, programmable auto attendant greetings and caller display, plus optional VoIP trunks. TalkSwitch provides a seamless solution bridging the evolution from traditional analogue to IP-based voice communications.

- HYBRID IP PBX
- PSTN LINES
- VOIP TRUNKS (OPTIONAL)
- ANALOGUE EXTENSIONS
- IP EXTENSIONS
- OFF-PREMISE EXTENSIONS
- VOICEMAIL
- AUTO ATTENDANTS
- CALLER DISPLAY
- EXTENSIVE FEATURE LIST
- BRANCH NETWORKING
- ITSP CONNECTIVITY
- EASY TO INSTALL
- SIMPLE TO MANAGE
- PC CONFIGURATION TOOL
- REMOTE IP MAINTENANCE
- FLEXIBLE GROWTH
- MULTI-CABINET
- SOFTWARE UPGRADEABLE
- 2-64 USERS PER SITE
- UNBEATABLE VALUE

System Features

- Caller Display
- Auto Attendant greetings: 9
 - Extension recording or .wav file
 - 6 options per greeting
 - Auto fax detect and DTMF time-out
 - Dial-by-name directory
- Voicemail
 - Mailbox for each local and remote extension
 - Guest mailboxes: 10
 - Message indication
 - Notification: telephone call, pager, e-mail attachment
 - Remote Access
 - Capacity: 2 hours, upgradeable¹
- Remote extensions (O/G Off-premise): 10
- Line/VoIP trunk hunt groups: 9
- Conference Calls (3 way)
- Call Forward (Busy, No Answer, DND)
- Do Not Disturb (DND)
- Call Transfer
- Call Cascade: 3 levels
 - On Busy, No Answer, or DND
- Call Hold
- Call Park: 10
- Call Pick-Up
- Call Screening
- Extension Ring Groups: 10
 - Distinctive Ring Patterns
- Call Queue
- Uniform Call Distribution (UCD)
- Call Back (Auto, Prompted)
- Direct Inward System Access (DISA)
- Direct Line
- Intercom
- Mode Scheduling: 2 + Holiday
- MOH: External or .wav download
- External Paging
- Set paging to TalkSwitch sets
- Automatic Route Selection (ARS)
 - Time of Day and Carrier Code
- Toll Restriction
- Emergency number passthrough
- Extension Password
- Account Codes (Voluntary)

Configurations			
Without VoIP	240vs	480vs	840vs
With VoIP (8 VoIP Trunks)	248vs	488vs	848vs
Analogue Telephone Lines (FXO)	2	4	8
Analogue Extension Ports (FXS)	4	8	4
Maximum IP Extensions	16		
Total IP + FXS Extensions	16		

System Ports

USB 1.1 (Type B)
LAN RJ-45 10BaseT
MOH 3.5mm mono
PA 3.5mm mono

PSTN Line Interface

Loop-Start, DTMF,
Line reversals,¹ release guard¹
RJ-11, 2-wire
Ringing detection: 16-50 Hz
Caller display: FSK, (DTMF dual-mode¹)
Distinctive ring detection: 1-3 bursts/cycle¹
Line impedance: TBR21¹, 600Ω, 900Ω, others¹
Line impedance auto calibration

Analogue Extension Interface

RJ-11, 2 pin
Loop-start, DTMF
Loop range: 600Ω (on-premise)
Ringing: 17, 20, or 25 Hz @ 90 Vrms¹
Recall/flash¹ detection
Caller display: FSK (Bell 202 or V.23)¹
MWI: FSK and stutter dial tone

System Management Features

CD installation wizard
Windows® configuration program
Local management (USB, Ethernet, IP)
Remote management (IP)
Web-based software upgrade distribution
Automatic software update downloads
Firmware flash upgradeable
Automatic daylight saving time adjustment
Password protection
Call detail record (CDR) logging
Multiple cabinet auto-configuration
WAV file format: 8 kHz, 8 bit, mono, μ-Law
Multi-language voice prompts¹

Regulatory Standards Compliance

EMC: CISPR 22; EN55022, EN55024, FCC Pt 15B
Safety: EN/AS/NZS 60950
Network: TBR21, A-Tick, ICASA, others¹
Caller display: ETSI 300 659, BellCore GR30¹
RoHS compliant (EU)¹

VoIP Networking Features (Optional)

Protocol: SIP
Codecs: G.711(A/μ), G.726 (32 Kbps), G.729AB
SIP user agent
SIP registrar/re-direct server
(for private intra-branch networking)
Transparent fax over IP: T.30
DiffServ for QoS
VAD, G.165/168 echo cancellation
Adaptive jitter buffer
Packet loss concealment
Calling service features:
Caller display,
Direct inward dialling
Maximum SIP registrations: 256 numbers
Network nodes: 16 maximum (recommended)
ITSP registration: 1 profile, 24 numbers/unit
Broadband router/gateway requirements:
Port forwarding,
UPnP (optional)
VoIP resource control
Concurrent multi-branch and ITSP VoIP

IP Extension Features

Protocol: SIP
Codec: G711 (built-in)
Network: LAN or WAN
Auto-configuration — supported sets:
Polycom 301, 320/330, 430, 50x, 550,
60x, 650
Grandstream GXP2000 (FW ver 1.1.1.14+)
Counterpath Eyebeam Softclient (V 1.5)
Others¹
Supported Features:
Hold, transfer, conference, park, message
waiting indication, un-park, call pickup,
queue, cycle through queue.

Physical

Dimensions: 52mm x 204mm x 214mm
Weight: 0.64-0.9 kg¹ (excl. power adapter)
Operating temperature range: 0-40°C
Total packaged weight: 2.5 kg
Power: 110 VAC (NEMA 5-15P) or
220-240 VAC with power cord¹



About TalkSwitch

TalkSwitch®, a division of Centrepoint Technologies Inc. with corporate headquarters in Canada, designs and develops award-winning telephone systems for small businesses and multi-branch applications. Since 1990, TalkSwitch has focused on developing PBX and IP PBX products that thousands of small businesses rely on today. With a growing global network of resellers, distributors and partners, TalkSwitch is changing the way small businesses communicate. For more information, please visit our website at <http://global.talkswitch.com>, contact your local dealer, or call us at +1.613.725.2980.

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Upgrade Options

Upgrade Kit	Analogue PSTN Lines (FXO)	Analogue Extensions (FXS+IP)	VoIP Trunks	Compatible with
8plus	—	—	+8	240vs, 480vs, 280vs
240plus	+2	+4	—	240vs, 244vs, 248vs
Voicemail		1, 2, 4.5 and 9 hours ¹		All ¹

Multi-cabinet Configurations — Maximum Capacities

Number and type of TalkSwitch	PSTN Lines (FXO)	VoIP Trunks	Analogue Extensions	Extensions (FXS+IP)	Remote Extensions	Auto Attendants	Ring Groups
4 x 248vs	8	32	16	64	40	9	10
4 x 288vs	8	32	32	64	40	9	10
4 x 488vs	16	32	32	64	40	9	10
4 x 848vs	32	32	16	64	40	9	10

1. Available options subject to market model (see local dealer for details)

Individual market models are designed for use in specific markets or regions, and may be subject to local regulatory approvals. This document describes models intended for use in Europe, Middle East, Asia, Africa, South America, and Australasia. Information is for guidance and subject to change. Service provider calling features may require activation and/or subscription.