



## TALKSWITCH : DATA SHEET

Designed exclusively for single, multi-branch and home-based small businesses with 1 to 32 phone users per office, the feature-rich TalkSwitch® delivers big business phone power at small business prices. Every TalkSwitch telephone system includes auto attendants, voicemail and advanced remote extension capabilities in a compact, user-friendly package. The revolutionary TalkSwitch is customer installable and configurable, and scales from 2 to 32 local extensions per location. TalkSwitch is a hybrid system, offering small business affordable connections to the IP network while maintaining connections to the traditional Public Switched Telephone Network (PSTN).

### SYSTEM OVERVIEW

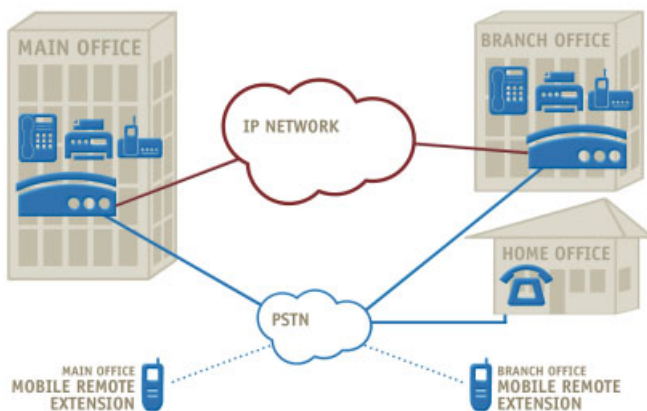
System capacity ranges from 2 to 32 local extensions. TalkSwitch systems employ a unique modular architecture, connecting from 1 to 4 units over the Local Area Network (LAN). Each individual unit is equipped to achieve full system functionality, with local extensions, incoming phone lines, and full voice mail and auto attendant capability. No add-on components are required. VoIP capability is either included or can be added later. Standard analog phones and TalkSwitch phones can be used to place calls over the PSTN and the Internet.

TalkSwitch units come in three versions:

- TalkSwitch 24: 2 phone lines, 4 local and 8 remote extensions. Upgradeable to 48-NLS
- TalkSwitch 48-NLS: 4 phone lines, 8 local and 8 remote extensions. Upgradeable to 48-CVA
- TalkSwitch 48-CVA: 4 VoIP trunks, 4 phone lines, 8 local and 8 remote extensions

Expansion of the 48-NLS and 48-CVA systems is achieved in 4 line/8 extension increments, by adding TalkSwitch units up to a maximum of 4.

### SAMPLE APPLICATIONS

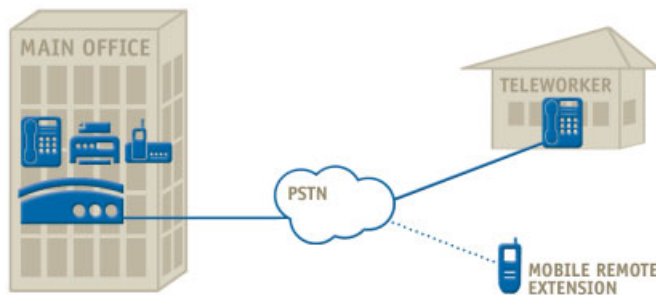


#### BRANCH TO BRANCH

TalkSwitch systems in multiple offices can be connected over the Internet. In this example, both systems retain multiple CO ports for connections to the PSTN. Standard analog phones and fax machines are connected to each system. Cell phones and wired home office phones can be remote extensions of either office, enabling teleworkers and mobile workers to stay connected. If the main and branch offices are in distant locations, calls between them can be routed over the Internet for long-distance cost savings.

#### Network Services

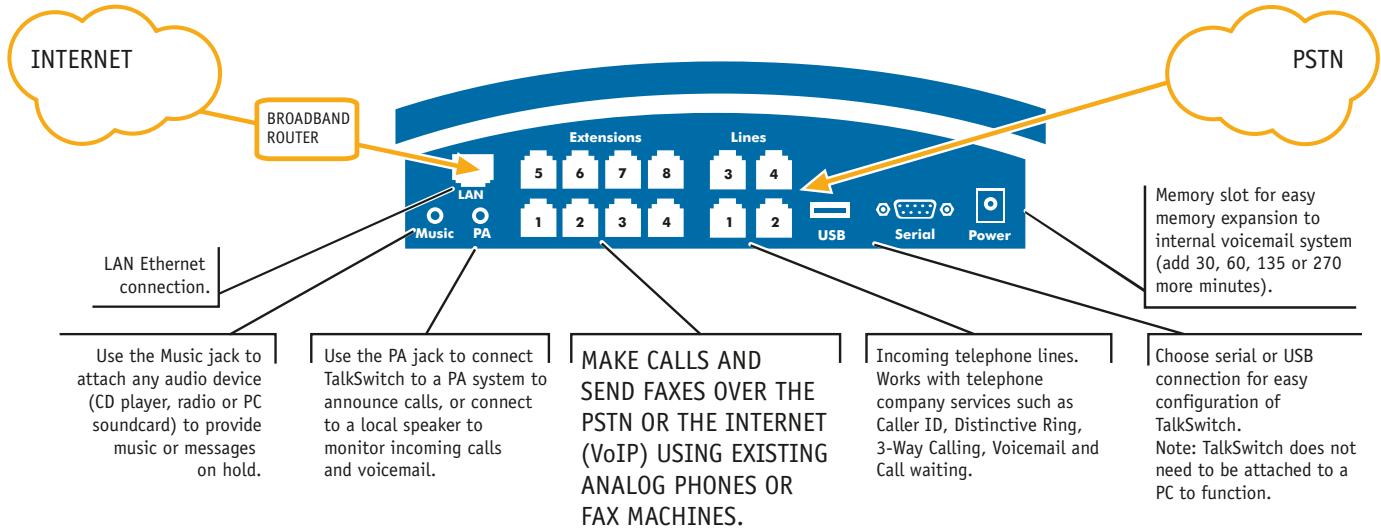
The system also allows users to access service providers' network-based next-generation service offerings and applications such as VoIP, unified messaging, advanced conferencing and long-distance services.



#### SMALL OFFICE

TalkSwitch excels in small offices. Unlike many traditional business telephone systems, TalkSwitch offers a fully functional, affordable solution to even the smallest businesses, including businesses with only one employee. And even the smallest member of the TalkSwitch family can grow in capacity and be upgraded to include Voice over IP calling when the time comes.

# TALKSWITCH 48-CVA BACK PANEL



## SYSTEM CONFIGURATIONS

System Configurations	CO Lines	VoIP Trunks	Local Extensions	Remote Extensions	Voice Mailboxes	Auto Attendants	Call Back Accounts	Serial/USB	LAN	Memory Expansion
TS 24	2		4	8	22	9	4	✓		✓
TS 48-NLS with 1-4 units	4-16		8-32	8-32	26-104	9	4-16	✓	✓	✓
TS 48-CVA with 1-4 units	4-16	4-16	8-32	8-32	26-104	9	4-16	✓	✓	✓

## VoIP SPECIFICATIONS (TalkSwitch 48-CVA only)

### Embedded SIP Server and User Agents

- Integrated proxy server
- Integrated registrar
- Can be configured to use external SIP servers as required

### Four VoIP Channels

- RTP/RTCP
- G.711, G.726 (32Kbps), G.729a/b, G.723.1
- G.168 echo cancellation
- VAD, silence suppression, CNG
- Adaptive jitter buffer
- Packet loss concealment
- FAX tone detection

### IP and Network Features

- Automatically discover public IP address
- DHCP for automatic configuration
- Diffserv
- 802.1p/q

## PHYSICAL SPECIFICATIONS

### Extension Interface

Ringing voltage	90 volts RMS
Ringing frequency	20 Hz - True Sine wave
Total ringing load	5 REN
Trunk type	Loop start
Connector type	RJ-11, 2 pin
Interface impedance	600 ohms
Flash hook supported	Yes

### C.O. Interface

Interface impedance	600 ohms (CVA: 600/900 ohms)
Trunk type	Loop start
Connector type	RJ-11, 4-pin
REN	1.8 (CVA: 0.7)
Caller ID support	All lines
Distinctive ring supported	Yes

### System

C.O. interfaces, TS 24	2
C.O. interfaces, TS 48-NLS/CVA	4
Extension interfaces, TS 24	4
Extension interfaces, TS 48-NLS/CVA	8
RS-232, 9 pin interface	1
USB interface	1
48-NLS LAN interface	RJ-45 Ethernet (10BaseT)
48-NLS Memory expansion	1/2, 1, 2, or 4 1/2 hour
Music input	Phono jack (mono) 1/8"
P.A. output	Phono jack (mono) 1/8"
Power source	AC wall adapter 120VAC/16VAC 1.5A
Power-failure Line to Extension jacks:	EXT.4 connects to Line 1

### Dimensions:

51.6mm x 203.2mm x 213.4mm (HxWxL)

### Weight:

TS 24: 0.675kg  
TS 48-NLS: 0.930 kg  
TS 48-CVA: 0.860 kg

### Approvals:

FCC parts 15 and 68  
Industry Canada  
CS-03  
IEC 60950

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