



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

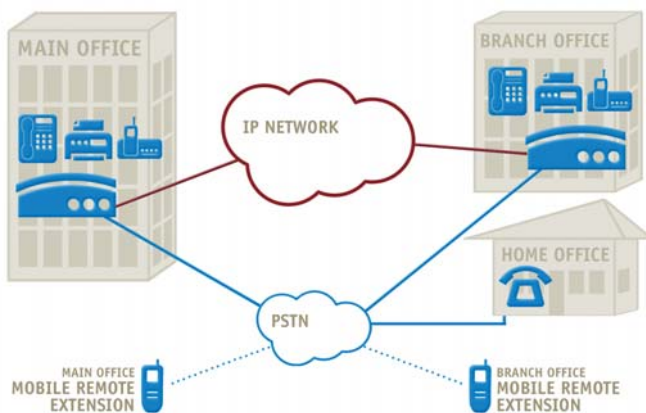
System capacity ranges from 2 to 32 local extensions. TalkSwitch systems employ a unique modular architecture, connecting from 1 to 4 units over the Local Area Network (LAN). Each individual unit is equipped to achieve full system functionality, with local extensions, incoming phone lines, and full voice 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-CA: 2 phone lines, 4 local and 8 remote extensions. Upgradeable to 48-CA
- TalkSwitch 48-CA: 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-CA and 48-CVA systems is achieved in 4 line/8 extension increments, by adding TalkSwitch units up to a maximum of 4.

SAMPLE APPLICATIONS

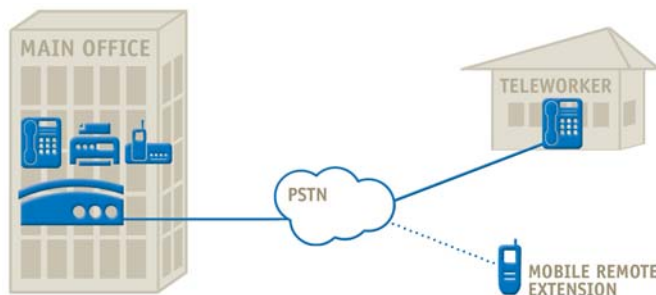


BRANCH TO BRANCH

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

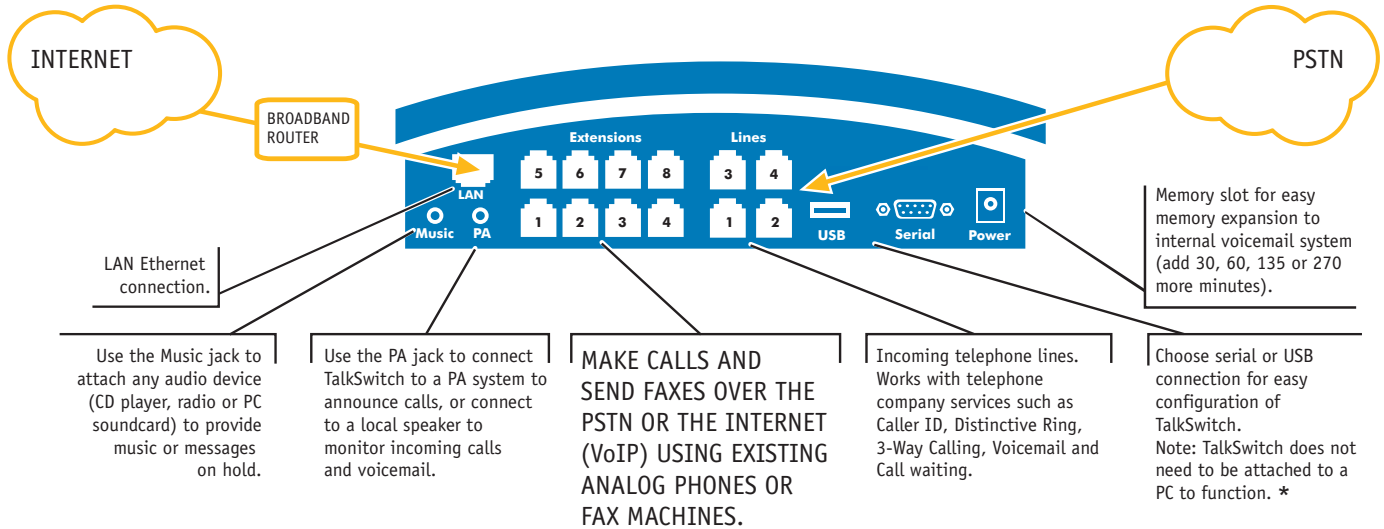
The system also allows users to access service providers' network-based next-generation service offerings and applications such as VoIP, unified messaging, advanced conferencing and long-distance services.



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-CA | 2 | | 4 | 8 | 22 | 9 | 4 | ✓ | | ✓ |
| TS 48-CA 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 μ -law/A-law, G.726 (32Kbps), G.729a
- 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 for QoS
- Universal Plug and Play for auto port mapping
- DNS SRV for automatically locating SIP servers

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 | 24-CA: 600 48 CA & CVA: 600/900 ohms |
| Trunk type | Loop start |
| Connector type | RJ-11, 4-pin |
| REN | 24-CA: 1.8. 48 CA & CVA: 0.7 |
| Caller ID support | All lines |
| Distinctive ring supported | Yes |

System

| | |
|--|-----------------------------------|
| C.O. interfaces, TS 24-CA | 2 |
| C.O. interfaces, TS 48-CA/CVA | 4 |
| Extension interfaces, TS 24-CA | 4 |
| Extension interfaces, TS 48-CA/CVA | 8 |
| RS-232, 9 pin interface | 1 |
| USB interface* | 1 |
| 48-CA/CVA LAN interface | RJ-45 Ethernet (10BaseT) |
| Memory expansion | .5, 1, 2, or 4.5 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(HxWxL): 2.03" x 8" x 8.4"

Weight: TS 24-CA: 1.488 lb
TS 48-CA: 1.81 lb
TS 48-CVA: 1.89 lb

Approvals: ACTA TIA/EIA/IS-968
and FCC Part 68
Industry Canada CS-03
and ICES 003

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*USB support will be available in an upcoming software release.