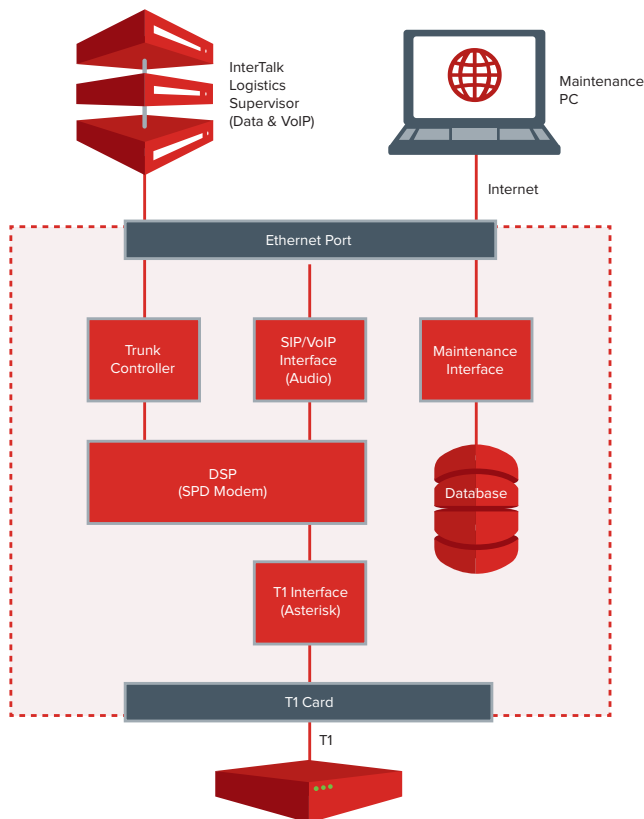


# Speech Plus Data System

## SPEECH PLUS DATA (SPD) SYSTEM

SPD is InterTalk's™ Speech Plus Data Controller System, utilized to control your agency's Speech Plus Data radio trunks and/or base stations. InterTalk's SPD is housed on a Linux-run server platform. Each SPD can be configured to control up to 192 polling radio trunks over eight T1 spans, and can also be configured for complete redundancy, ensuring no critical communications or information are lost to outages.



## SYSTEM SOFTWARE COMPONENTS

**Trunk Controller:** Accepts socket connections from the ILS Server; can simultaneously handle up to 192 radio trunks; option to separate data from voice (data sent via IP socket, voice via T1).

**SIP/VoIP Interface:** Routes radio trunk audio between InterTalk Logistics Supervisor and DSP SPD Modem; includes TX VOX detection to support VOX PTT when enabled.

**Maintenance Interface:** Web-based management of maintenance and configuration of the SPD Controller Server; database management for storage and retrieval of configuration/diagnostic data; real-time diagnostic support and archived usage statistics.

**DSP SPD Modem:** Manages SPD Modem encode/decode functionality; separates voice and data on received audio from the radio trunk T1 Interface; combines voice and data in transmitted audio to the radio trunk T1 Interface; handles DTMF and 2-tone paging encoding.

**T1 Interface:** Embedded Asterisk server interfaces audio and data streams to T1 Cards DSOs; handles SIP registration alarm reporting to the InterTalk Logistics Supervisor.

## DATA SECURITY

InterTalk recognizes the growing importance of protecting your organization's sensitive data, as evidenced by our ISO 27001:2013 certification for Information Security Management Systems. Combined with our ISO 9001:2015 certification for Quality Management Systems, you can be assured that InterTalk is a global industry leader in console system quality and information security.



# Speech Plus Data System Specifications

## GENERAL

|                             |                                     |
|-----------------------------|-------------------------------------|
| Processor                   | Intel® Core™ i3 or better           |
| Ethernet Connections        | Auto-Sensing 10/100/1000 Mbps ports |
| T1 Interfaces               | 1 - 8 spans (24 - 192 trunks)       |
| Operating System            | Linux                               |
| AC Input Power Requirements | 100/240 VAC, 50/60 Hz, 40 Watts     |
| Standard Warranty           | One (1) Year                        |

## PHYSICAL CHARACTERISTICS

|             |  |
|-------------|--|
| Dimensions  | 3.38 x 17.54 x 27.25 inches<br>(8.59 x 44.55 x 69.22 cm) |
| Form Factor | 1U, standard 19" rack mounting                           |
| Weight      | 8.8 lbs (4.0 kg)   |

## ENVIRONMENTAL

|                       |                                |
|-----------------------|--------------------------------|
| Operating Temperature | -30° to +60°C (-22° to +140°F) |
| Humidity              | 5 to 95% RH (non-condensing)   |
| Storage Temperature   | -40° to +85°C (-40° to +185°F) |

## FEATURES

|                     |   |
|---------------------|---|
| Polling Protocols   | Safetran, Penta, InterTalk, InterTalk Citadel Base Station Controller |
| Polling Data Modes  | SPD or IP   |
| Trunk Keying        | Console control or VOX PTT  |
| Tone Generation     | Progress tones, Test tones  |
| Muting Capabilities | VOX Muting, Idle Trunk Muting   |

## MAINTENANCE TOOLS INCLUDED

|                        |  |
|------------------------|--|
| Loopback               | Loopback of switch and trunk side audio  |
| Test Tone              | Test tone generation toward trunk or switch  |
| Audio Monitor          | Audio to and from the radio trunk DSO can be monitored from a technician's maintenance console               |
| Trunk Data Monitor     | Route any trunk polling data to an NLS port or IP socket; data logged is time-stamped and indicates TX or RX |
| Polling Statistics     | Tracked statistics include missed polls, Base fails/recoveries, poll response time                           |
| Diagnostic Message Log | Message Log includes startup/shutdown/failover events, trunk controller events, and more                     |
| Error Log              | Error Log includes any alarm or errors encountered during operation  |

## SPD SYSTEM REPLACES EXISTING...

|  |
|--|
| 4-wire Radio Trunk Switch Ports              |
| Terminal Servers                             |
| RS-232 Cables and Switches                   |
| Trunk Interface Controller Cards and Chassis |
| 4-wire MUX Cards and Jackfields              |

## STANDARDS

|        |                   |
|--------|-------------------|
| Safety | LVD, UL, cUL, CCC |
| EMC    | FCC, CE (Class A) |