

SPECIFICATIONS

System Capacity	
Stored Announcements	Unlimited*
Auxiliary channels	16
Groups	Unlimited*
Public Address Zones	Unlimited*
Audio Characteristics	
Frequency Response	200 Hz – 7 kHz +/- 3 dB
Transmission Format	Real-time Transport Protocol (RTP) streaming
Digital audio format – Voice	A-law compressed PCM 16 kHz sampling rate
Digital audio format – Aux. playback	MPEG Layer 3 (MP3), typical encoding: 128kbps stereo 44.1 kHz
Audio Streaming Bandwidth	128kbps one way
Network	
Addressing	TCP/IP IPV4, static or dynamic (DHCP)
Interface Media	IEEE 802.3 10/100Mbps Ethernet
Standards	<ul style="list-style-type: none"> • IEEE802.1P LAN Layer 2 prioritisation. • RTP - Real-time Transport Protocol (RFC3550/3551) • DTMF - RTP payload for DTMF digits (RFC2833) • Diffserv - Differentiated Services (RFC2474/2475) • SNMP - Simple Network Management Protocol v2 (RFC1901) • IGMPv2 - Internet Group Management Protocol v2 (RFC2236) • DHCP - Dynamic Host Configuration Protocol (RFC1531) • IEEE802.1Q Virtual LAN • TOS - IPV4 Type of Service (RFC791) • Multicast - IP Multicasting (RFC1112) • NTP - Network Time Protocol (RFC1305)
Cabling	
Power Input / Ethernet	4 pair screened CAT-5/5e/6, multi-strand
Max. cable length to intercom station	100m (Jacques Cable Extender Module JCE-8B1 can provide extended distances up to two kilometres)
Voice Annunciator	Digital message store with playback and recording of announcements.
Audio Streaming server	Up to 16 channels of auxiliary audio in MP3 format from live or pre-encoded sources.
Event Controller	Configurable interfaces to third party systems, Modbus/TCP, relay outputs or RS232/RS485.
System Components	
Jacques TCH servers run embedded Linux and are optional for Redhat enterprise Linux certified third party hardware vendors.	
TCH-1	1RU rack mount system server for industrial environments.
TCH-1LX	1 RU Small System Server
TCH-4	4RU rack mount system server
IPM-650PA	Multi-zone paging console
PCIP-650	Master station for Microsoft Windows 2000/XP, touchscreen option.
UAL-3B1	Universal Audio Interface: radio interface/PA controller/relay controller/streaming audio controller
JAG-S1	Jacques Audio Gateway
JELM-1	Jacques EWIS/Line Monitor (requires JAG-S1, or standalone)
ANM-1	Ambient Noise Monitor (requires JAG-S1)
JCE-8B1	Cable Extender Module can provide up to 2000m on twisted pair cable



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Due to our policy of continuous improvement, all specifications are subject to change without notice.
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JACQUES SAFE SCHOOL SYSTEM - PROVEN AND RELIABLE VoIP COMMUNICATIONS SYSTEM

Jacques Safe School System: keeping teachers and students safe

The world around us is changing. Violence and bullying are on the rise in school communities which means our teachers and students are at greater risk than ever before. What can be done to protect them?

As you are responsible for the safety of the school it is recommended that you introduce the dependable and reliable Jacques Safe School System into your school. You'll improve the safety of your teachers and students and minimise the risks.

The Jacques Safe School System incorporates the latest in integrated communication technology and utilises a range of monitoring and control systems to enhance the safety of the environment for teachers and students to work and learn.

Schools with a Jacques Safe School System in place benefit from distributed communications devices with the ability for immediate communication and response to violence and bullying incidences. This system holds everyone on campus accountable for their actions.



Safe School: totally customisable

Established in 1980, Jacques is a wholly Australian owned company made up of a team of innovative and proactive professionals. Our team has the experience and expertise to customise the Jacques Safe School System to meet your school's individual needs.

We work with you to understand your issues and your budget before we recommend a solution. We then tailor a Jacques 650 Series Integrated Communication System to create your Safe School System.

You can leave it to Jacques to monitor all communications or choose to monitor trouble spots or mobile phone use, for example. The system features include:

Intercoms: audio only or audio and video

- Enjoy easy and instant communication with all classrooms
- Improve safety at school entrances
- Video intercoms offer added safety and can be used in place of or in addition to audio intercoms

Public address system

- Make timely announcements with clarity, adding to classroom safety
- Manage school bells with ease
- Save when you use the intercoms as public address speakers

Help points

- Improve safety in the school yard, at school bus shelters and at other trouble spots
- Highly visible and vandal resistant
- One touch operation
- Can be integrated over a wireless network, minimising system wiring
- Can be integrated with public address and school bell systems

Event controller

- Allows trouble free management of school scheduling such as bells and announcements
- Timer scheduler function allows advance programming and blackout periods such as school holidays

Mobile phone detector

- Instantly alerts teachers of mobile phone use in classrooms
- Minimises cheating in exams and tests
- Can be integrated into your Safe School System or used as a standalone device

Synchronised clocks

- Allows for smooth and efficient school operations through the synchronisation of all school clocks

Covert monitoring

- When the risk of danger is high, covert monitoring delivers greater safety and peace-of-mind
- Any station can be monitored at any time to check if a classroom or space is being used

Digital audio recorder

- Benefit from the protection of recording all conversations and activities or choose to record on demand
- Fully automatic system allows call recording, call search and call replay
- Designed for integrated recording with other security and surveillance management equipment

High level interface to other systems

- Benefit from the value you receive because your Safe School System has the capability to integrate with other systems in your school including CCTV, access control and building and security management systems

The Safe School advantage

There are many reasons to choose the Jacques Safe School System. Innovative design, total flexibility, value for money and peace-of-mind are just some of the reasons. Here are some more.

Fully digital, IP technology: the system is based on Ethernet network standards and TCP/IP protocols and uses commercially available network equipment and infrastructure.

Expandable and flexible system architecture: the system allows an unlimited number of intercom stations to be connected in a fully integrated system.

Clear, full motion video images: delivered over the IP network at 30 frames per second.

Crystal clear voice communications: wide voice bandwidth digital audio with low distortion provides high intelligibility which is essential for public safety and security applications.

Reduced cabling and installation costs: no special cabling or terminations are required for distribution of digital audio and video as this system uses standard Ethernet and can be streamed over copper, fibre or wireless. The system is easily integrated with structured cabling systems or existing data networks.



There's no room for compromise

When it comes to the safety of your teachers and students there is no room for compromise. Choose the Jacques Safe School System and you'll rest easy knowing your school is in safe hands. You won't just receive the very best in integrated communication technology; you'll receive the very best in service and support.

Contact us today

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Typical System Drawing

