

Jacques Electronics Pty Ltd

www.jacques.com.au • info@jacques.com.au

268 Montague Rd, West End QLD 4101 • P: (617) 3844 1103 • F: (617) 3844 1078

Jacques 650 Series VoIP Integrated Communications Public Address System

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

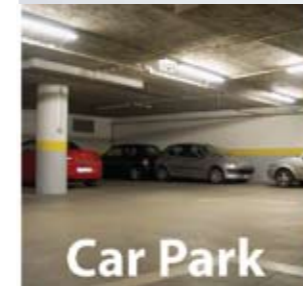
- IEEE802.1P LAN Layer 2 prioritisation.
- RTP - Real-time Transport Protocol (RFC3550/3551)
- DTMF - RTP payload for DTMF digits (RFC2833)
- Diffserv - Differentiated Services (RFC2474/2475)
- SNMP - Simple Network Management Protocol v2 (RFC1901)
- IGMPv2 - Internet Group Management Protocol v2 (RFC2236)
- 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



Car Park

Marina

Airport

University

Stadium

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SPECIFICATIONS

JACQUES PUBLIC ADDRESS - FLEXIBLE AND RELIABLE VoIP COMMUNICATIONS SYSTEM

DESCRIPTION

The Jacques 650 Series VoIP Public Address System is an extremely flexible and expandable PA system using innovative leading edge VoIP technology.

Full integration with your existing Building (BMS) or Security Management Systems (SMS) in addition to Telephone and Fire Detection Systems allows these 3rd party systems to easily interface and control the VoIP PA system.

Additionally PA zones can be monitored and an unlimited number of pre-recorded messages may be time scheduled to play in any or all PA zones. From small to large systems, the VoIP PA system suits most paging applications.



'Providing reliable public address communication when information is paramount'

FEATURES

- Crystal clear voice communications
- Extremely flexible and expandable
- Unlimited PA zones and PA groups
- Unlimited number of paging consoles
- Connects directly to an Ethernet network
- Shared or dedicated networks
- Can connect to standard PA amplifiers
- No dedicated cabling due to Ethernet
- Fully expandable anytime in the future with ease (small to large systems)
- PA controllers and paging consoles can be connected anywhere on the network
- Environmentally sealed (IP-56 rated)
- Simple installation and low maintenance
- Extremely sensitive omni-directional microphone
- Vandal and water resistant piezo electric call button(s)

APPLICATIONS

The Jacques Public Address System is suited to paging applications where crystal clear information is required including:

- Libraries
- Schools
- Commercial Buildings
- Shopping centres & malls
- University or college campuses
- Bus & train stations
- Airport & shipping terminals
- Factories
- Carparks
- Anywhere, where good quality PA systems are required

TYPICAL SYSTEM DRAWING

