JACQUES

Jacques Technologies Pty Ltd
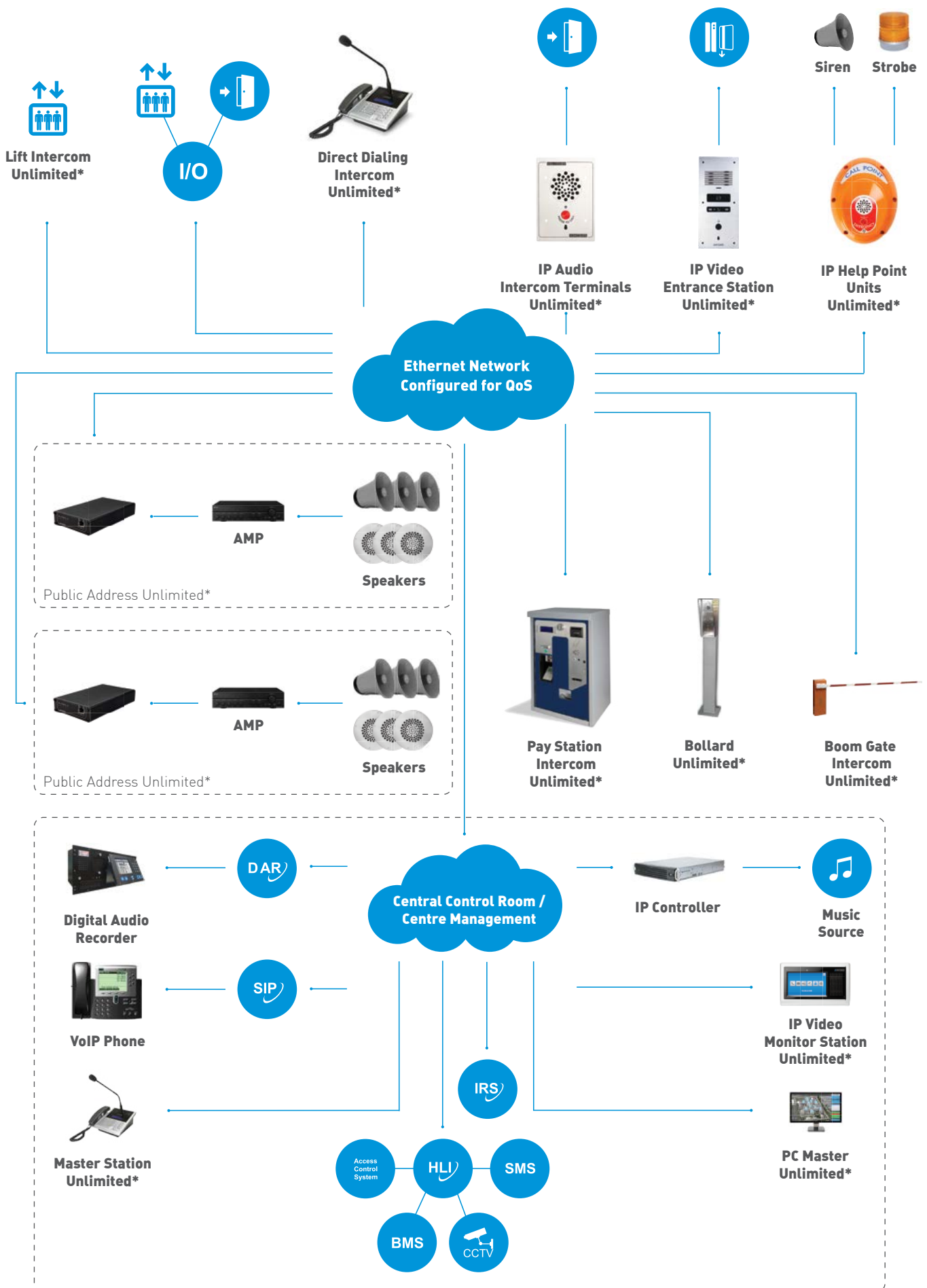
IP TRANSPORT COMMUNICATION SYSTEM

IP TRANSPORT COMMUNICATION SYSTEM

The importance for the reliable operation of transportation systems lies heavily upon effective communications and security systems. Passengers and staff should feel safe and secure when using transportation systems, this includes travelling during the day, or alone at night. Jacques' Integrated IP Communications System provides time-critical communication when required. It features intercom, help point units and public address, providing a flexible and reliable package with integration to many third-party systems and devices. This includes CCTV, security management, and access control systems. Jacques provides unique and tailored solutions that works effectively for bus, train, airport and maritime transportation systems.

SYSTEM DIAGRAM

Lift Intercom Unlimited*

I/O

Direct Dialing Intercom Unlimited*

IP Audio Intercom Terminals Unlimited*

IP Video Entrance Station Unlimited*

IP Help Point Units Unlimited*

Siren **Strobe**

Ethernet Network Configured for QoS

AMP

Speakers

Public Address Unlimited*

AMP

Speakers

Public Address Unlimited*

Pay Station Intercom Unlimited*

Bollard Unlimited*

Boom Gate Intercom Unlimited*

DAR

Digital Audio Recorder

Central Control Room / Centre Management

IP Controller

Music Source

SIP

VoIP Phone

IP Video Monitor Station Unlimited*

Master Station Unlimited*

IRS

PC Master Unlimited*

Access Control System **HLI** **SMS**

BMS **CCTV**

*Virtually unlimited. Dependent on server configuration and network bandwidth. **Redundant or distributed IP controller options available

SYSTEM FEATURES

CCTV Camera Associations

Complete audio/video control using third party IP CCTV camera associations via high level interface. This allows for CCTV switching to occur when an intercom terminal is in use.

Supported Integration

Jacques IP communication systems integrate via high level interface to a large number of industry recognised partners. Integration with building and security, CCTV, telephony and access control systems ensure a complete security solution.

Call Recording

Jacques facilitates the capture of audio from all intercom call/s in the system. The system provides multiple digital channel outputs for digital voice logging with time date stamping. This is ideal for investigating issues of public safety within transport networks.

Environmental Specific features

Jacques intercom terminals are manufactured specifically for, weather exposed and high-volume usage environments. This includes help point units for transport networks, stainless steel entrance intercoms & speakers for all weather conditions.

Central Control & Monitoring

Jacques IP intercom & PA system for transport network applications can be easily managed through the Jacques customised Graphical User Interface (GUI). The GUI, customised for each site – provides central control staff with one touch operation of the intercom and public address system features. Multiple map views provide users with a visual representation of the site and it's intercom/PA endpoints.

Time & Event Scheduled PA

Jacques PA system allows for multi-zone, pre-recorded message, scheduled release of messages and distribution of information in a timely manner. This makes efficient notification to passengers simple, like when a service is running late. The system also allows for pre-recorded messages with scheduled announcements at all or selected stations.

System Redundancy

Transport networks depend on system reliability. Jacques systems featuring redundant and distributor server frameworks that limit single points of failure, ensuring system robustness and reliability.
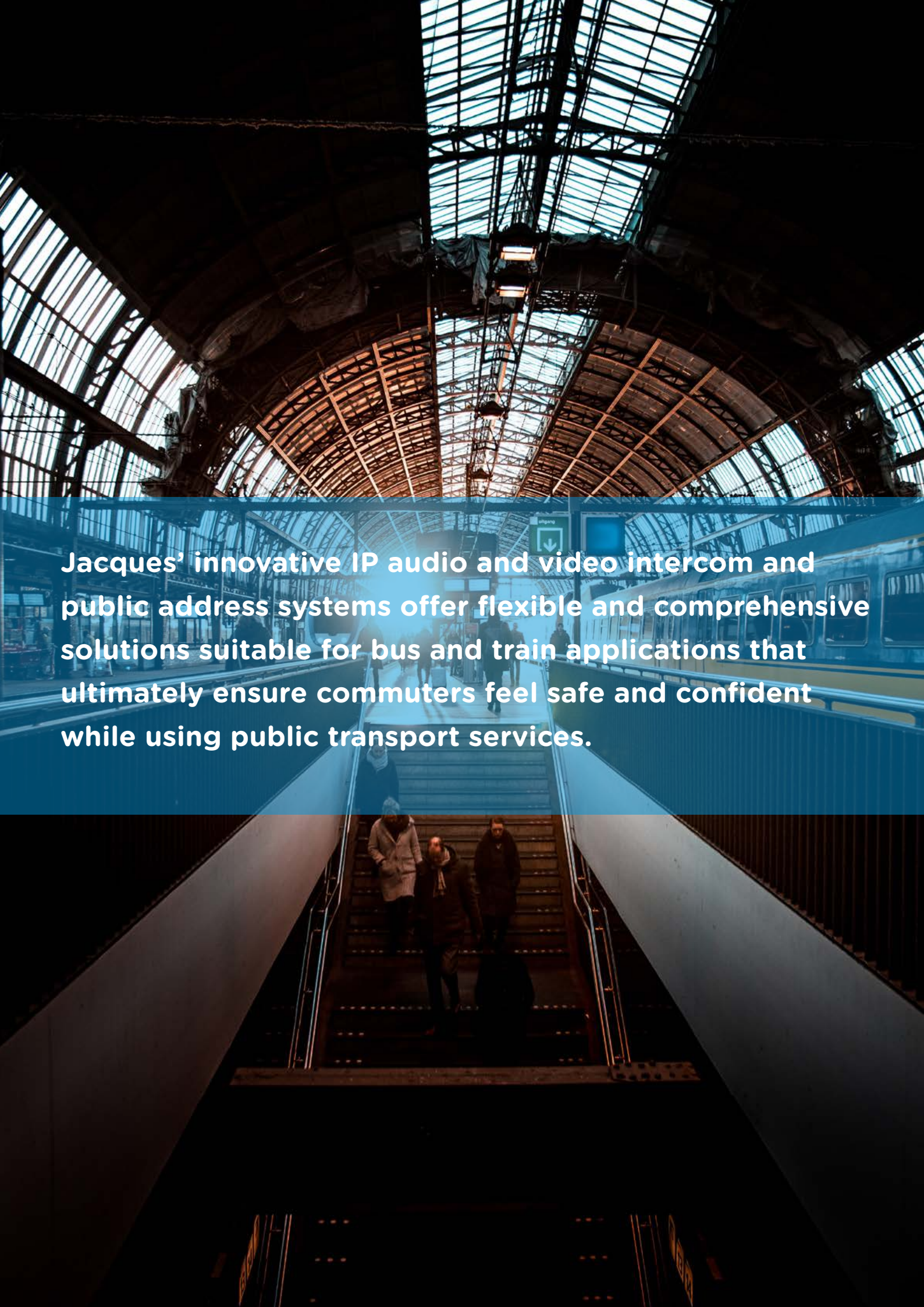
Multi-site

Ability for multi stations across a transport network (multi-site) to be controlled from a central management centre. Sites can be linked via Wide Area Network (WAN).

Relay modules

Configurable relay modules exist on intercom terminals to activate external equipment, such as – control doors, boom gates, lights or signal CCTV camera pre-sets.

Bus & Rail networks

A bus or rail network PA system enables simple notification to passengers regarding safety warnings, delays or emergency broadcasts within multiple zones. The system allows broadcasting announcements to all stations simultaneously or announcing specific messages to nominated stations (zones). The added security of intercom help point units and integrated CCTV cameras can help commuters feel safe when waiting at bus stops or train stations alone or at night.

Jacques' innovative IP audio and video intercom and public address systems offer flexible and comprehensive solutions suitable for bus and train applications that ultimately ensure commuters feel safe and confident while using public transport services.

FEATURE – HELP POINT UNIT

Transport networks operate 24 hours a day – Jacques Help Point Units can be positioned throughout carpark, concourse, station or terminal providing access to help and assistance to transiting people at any time. These highly visible, robust call points allow for emergency calling at the press of a button. Help point units are also available with dual call buttons, allowing for information calling, should passengers require help and assistance instead of an emergency.

"Designed to withstand the harshest environments – Jacques vandal and weather resistant intercoms ensures the public have communication access at all times"

APPLICATION – TOLL BOOTH

Jacques IP intercom and public address system partnered with leading third party systems such as CCTV, access control and security management systems help reduce the impact of transport infrastructure issues while providing a comprehensive and holistic approach to driver safety. With highway tolls becoming less manned, drivers need access to immediate assistance if, for instance – the boom gate fails to rise. With intercoms positioned at tolling booths and integration to CCTV cameras and access control systems, drivers have assistance through user-friendly intercom terminals whilst security are able to verbally address drivers, view the situation via CCTV and allow access from a central control location ensuring a continued traffic flow.

"The Jacques system can facilitate communication between bollard intercoms, boom gate intercoms as well as car park Help Point Units which connect directly to a central security control offering help, assistance and advice"

HOW TO BUILD YOUR SYSTEM

Begin with an Ethernet Network
configured for QoS.

1

CONTROLLER

Choose a controller which can manage your system
size and offer the functionality you require.

2

INCLUDED SOFTWARE

JCCP and JELinux software modules will come
pre-loaded with every system.

3

OPTIONAL SOFTWARE

Choose your optional software. These software
modules provide additional functionality and
integration to your system.

4

MASTER STATIONS

Choose your master station. They can make and receive intercom calls, make public address announcements and more depending on your system configuration.

5

INTERCOM TERMINALS

Choose your intercom terminals. They call pre-defined master stations and can initiate relays within your system.

6

ACCESSORIES

Choose your accessories. They provide additional functionality to your system.

+

CUSTOMISATION

A key advantage of the Jacques IP Communication System is our ability to customise the system to meet your requirements. Customisation can range from visual changes, such as intercom etching and unique Graphical User Interfaces (GUI), to developments which provide the system with unique and specific functionality. To learn more about the customisation of your Jacques system, please contact a sales representative.

1

CONTROLLERS & SOFTWARE

SYSTEM CONTROLLER LARGE

JSC-5L | 51814, JSC-5L-AEC | 51815

- IP controller, large, includes JCCP server software for intercom devices to make & receive calls, more than 80 endpoints supported
- Supports high definition audio
- SATA hard drive
- Segregated air-flow design for optimal unit cooling
- Acoustic Echo Cancellation Software (JSC-5L-AEC only)

[Download Datasheet]

2

MASTER STATIONS

IP MASTER INTERCOM STATION

IPM-360 | 51516, IPM-360H | 51533,
IPM-360G | 51534, IPM-360GH | 51535

- Network communications are based around TCP/IP protocol suite
- Static or dynamic IP address assignment. Dynamic Host Configuration Protocol (DHCP) is supported
- IEEE 802.3af PoE support
- Backlit display for reliable viewing in dark conditions
- Make & receive intercom calls
- Make live & prerecorded PA announcements
- Trigger intercom relays
- Balanced audio output of mixed speaker/microphone audio for call recording
- Options for gooseneck, handset and headset

[Download Datasheet]

PC MASTER STATION

PCC-650WIN | 51791, PCC-650WTS | 51857

- Complete intercom call handling functions
- Complete Public Address functionality
- Make live & pre-recorded announcements
- Broadcast tones, bells & alarms
- Visual display of PA zones (unlimited number of zones depending on controller)
- Selection and playback of recorded announcements
- View video from entrance station camera
- View CCTV footage from 3rd Party camera
- Diagnostics & reporting
  Alarm notifications including device state
- Touchscreen compatible interface
- Map, grid & database views
- Upload multiple site maps to suit application/site
- Customisable layout/functions

[Download Datasheet]

INTERCOM TERMINAL

VSL-351W+ | 51680

- IP audio intercom terminal for in classrooms or building entrances

- Standard PoE powered (IEEE 802.3af)

- Two configurable relays that can control lights, gate/door access etc.

- Tamper detection & attempted device removal notification

- Automated testing of speaker and microphone

- Single call button

- Water and vandal resistant

Download Datasheet

HELP POINT UNIT

HPU-5E2 | 51687, HPU-5E2i | 51688

- Highly visible, solid, vandal resistant call point

- Standard PoE powered (IEEE 802.3af)

- Simple 1 or 2 button operation, emergency or emergency &
   information calls

- Two configurable relays that can control lights, gate/door access etc.

- Tamper detection & attempted device removal notification

- Automated testing of speaker & microphone

Download Datasheet

UNIVERSAL AUDIO INTERFACE

UAI-3B1 | 51196, UAI-3E1 | 51195

- Public address (PA) zone controller

- Interface between Jacques' IP system & analogue devices such as a
   building's amplifier & PA system

- Interface between Jacques' 650 & 550 systems (hybrid)

Download Datasheet

IP SMART CEILING SPEAKER

SCS-150+ | 52011, SCS-150C+ | 52012

- IP PoE internal ceiling speaker

- Dual cone or coaxial flush mount options

- Internal microphone for automated speaker output fault detection

- Two configurable relays

- Tamper detection and device removal notification

Download Datasheet

ADAM RELAY MODULE

6 Channel | CE382

- 6-ch DI, 6-ch RL, Ethernet-based smart I/O
- Group configuration capability for multiple module setup
- Flexible user-defined Modbus address
- Intelligent control ability by Peer-to-Peer and GCL function
- Active I/O message by data stream or event trigger function
- Multiple protocol support: Modbus TCP, TCP/IP, UDP, HTTP, DHCP

PROJECT REFERENCES

Air Services Australia, various sites	Goodwill Bridge, QLD	Port of Portland, VIC
Butler Train Station, WA	Hamilton Railway Station, NSW	QAL Wharf, QLD
Broome Port Authority, WA	Hillside Rail, WA	Queen St Busway, QLD
Brisbane Busways, QLD	Hobart Airport, TAS	Sydney Trains, NSW
BRT Sunway Bus Rapid Transit, MYS	Johor Bahru Port Authority, MYS	T1 Sydney Airport, NSW
Canberra Airport, ACT	Mackay Port, QLD	Kurilpa Bridge, QLD
Christchurch Airport, NZ	Melbourne Airport, VIC	Tasmania Ports, TAS
CSIRO Investigator Research Vessel, TAS	New South Wales Rail, NSW	Tasmania Rail Yard, TAS
Darwin Airport, NT	North Quay Rail Terminal, WA	Toowong Bus Depot, QLD
Darwin Port, NT	ORICA Port Headland, WA	Webb Dock, VIC
Flinders Port, SA	Parramatta Tunnel, NSW	Wellington Airport Tunnel, NZ
Freemantle Ports, WA	Perth Airport Car Park, WA	Wollongong Railway Station, NSW
Gladstone Ports, QLD	Perth Rail, WA	
Gold Coast Airport, QLD	Port of Melbourne, VIC	

"Jacques continues to be involved in many interesting and prestigious large scale projects in Australia, New Zealand, the Middle East, South Africa and South East Asia. We are continuing to expand our international reach, providing integrated IP communication systems across the globe"

ADDITIONAL RESOURCES

PRODUCT CATALOGUE

Corporate Brochure

IP Public Address System

JACQUES