VCE™ MODULE

VCE OEM telephone module is designed to provide clear, hands-free voice communications in high acoustic noise environments. The module utilises patented digital voice enhancement and advanced Digital Signal Processing (DSP) techniques to provide clear intelligible communications where ambient noise levels can reach 105dBA, as would be experienced in a motorway tunnel. Typical applications are emergency or safety communications where the module is incorporated into telephone systems where calls are set up between high ambient noise environments and a call centre. Designed to be easily integrated into most communication systems using software configurable options and internal diagnostics. On-board facilities are provided to interface and control other devices via configurable digital I/O lines, serial port and switchable power.

FEATURES

- Predictive echo cancellation and self adjusting speech algorithms
- Mobile (GSM), fixed line (PSTN) telephone or ethernet (VoIP) options
- Extensive internal diagnostics, accessible locally or remotely
- Configure remotely using tone-dialing, or optional on site via data communication port
- Adaptive volume control and duplex operation
- Programmable send and receive levels
- External battery with charging options (solar, mains or remote power feed)
- Sleep mode to minimise power consumption
- Digitally stored announcements
- Response to remote user commands is by digitised voice
- Real time clock
- Tilt/vandal detection and automatic reporting
- Unique ID for location information
- Up to three auto dialling numbers, 20 digit
- Multiple audio I/O
- Lightning and radio frequency interference protection on PSTN / DC Feed board

TECHNICAL SPECIFICATIONS: VCE™ MODULE

Physical

Box Dimensions: 122W x 257L x 67D (mm)
Mounting flange: 122W x 281L (mm)
Mounting holes centres: 71W x 266L (mm), 6mm diameter for M4 stud

Environmental

Temperature range: -10 to +70 degrees C
Humidity: 95% non-condensing

Power Options

12V Solar Panel, Mains plug pack 15VDC 1A Remote power feed 22V-70VDC
External 12V sealed lead acid battery

Network

PSTN or PABX
GSM, (Next G SIM compatibility)
Ethernet (VoIP) (Peer to Peer availability)

External Interfaces

Serial port, control 1/0, Audi 1/0

Audio

Adaptive full duplex
Automatic volume control
Noise environments up to 105dBA
High level audio output, for speaker Low level audio output via codec

Configuration

Factory preset
Remote dial in
Management Software

Maintenance

Diagnostics via
1. Remote dial in
2. Remote PC based management system

Security

Four digit PIN protection
Automatic tilt/vandalism warning with dial up reporting

Compliance

ACMA
C-Tick

Supporting products

Matched high clarity speaker assembly with integrated microphone
WayPhone Manager for control room call management WayPhone Tester for automatic and remote testing WayPhone

Warranty

12 months on parts and labour from date of delivery.

VOIP MODULE

Model
VoIP PBA 1162

Operating temperature
0°C to 70°C

Storage temperature
-40°C to 70°C

Humidity
5 to 95% non-condensing

Power Requirements
12V - 24V DC 1A

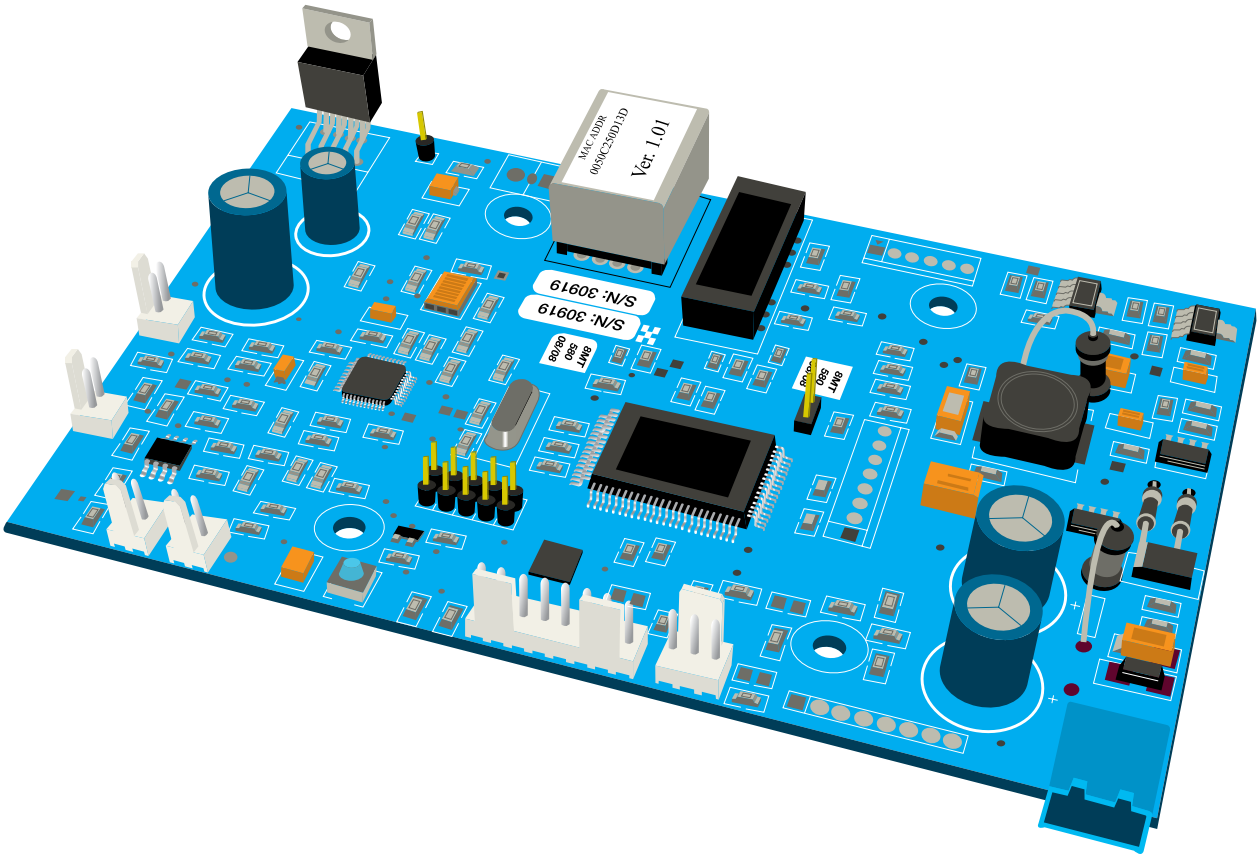
Power Consumption:
Idle current 65mA
Typical current while call in progress 80mA
Maximum current while call in progress 150mA

Dimensions
140mm by 85mm

Supported protocols
G.711 (mu-law + A-Law)
Session Initiation Protocol (SIP) RFC 3261
Real-Time Transport Protocol (RTP) RFC 3550
Session Description Protocol (SDP) RFC 2327
Trivial File Transfer protocol (TFTP) RFC 1350
User Datagram Protocol (UDP) RFC 0768

Physical connections
Power (2 way plug in screw in connector)
Local area network (LAN) connector
Button (8 way molex connector)
Programming (5 by 2 way connector)
LED (3 way molex connector)
Microphone (2 way molex connector)
Speaker (2 way molex connector)

Audio specifications
G711 mu-law + A-Law
Audio in 1.0V
Audio out 1.0V



CS-LVD MODULE

WayPhone Low Voltage Disconnect accessory will extend the life of connected batteries by preventing damaging over discharge. It will also ensure WayPhone operation is not compromised by low battery voltage. When the battery voltage drops to very low levels, it is considered better the phone switches off than operate abnormally.

The disconnect voltage is factory programmable but is typically set at 10.5V, optimal for Sealed Lead Acid cells used in most WayPhones. The loaded battery voltage is periodically tested to determine if the voltage is too low for reliable operation and approaching the level that causes battery degradation.

If the voltage is too low, the load (WayPhone) is disconnected from the battery.
The charging circuit remains connected to the battery and periodically, the LVD module tests the battery by applying a 'dummy' load and measuring the voltage. If it is considered charged enough for operation, it reconnects the battery to the WayPhone. The decision threshold for reconnection is also factory programmable but will typically be set to 12V.

A slowly blinking red LED indicates the battery has been disconnected from the load. A switched power output can be provided to ensure any ancillary equipment is also disconnected from the battery when the voltage is too low. If the equipment remains connected, the battery will continue to discharge, negating the benefit of the LVD device. Examples of such equipment are Line Extenders, Media Converters or Ethernet Switches.

Low voltage (Battery) Disconnect within WayPhone.