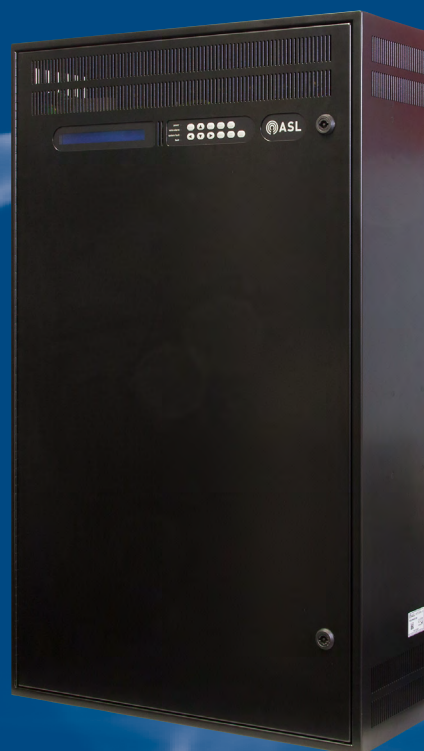


- Self-Contained Wall Mount Voice Alarm
- Integrated IP Audio Networking
- Simple Installation
- Up To 500W Per Channel
- Maximum 2000W Total Load
- DC / Impedance Loudspeaker Monitoring
- EN54-16 Compliant



The INTEGRA all-in-one network enabled voice alarm solution is available with up to ten channels of amplification.

The unit has 12 audio inputs and internal storage for up to 64 recorded messages. With a maximum power of 2000W, integrated audio-over-IP networking, powerful audio processing, and integrated battery supply all in a wall-mount enclosure.

Up to 32 INTEGRA can be linked over IP to enable broadcasts from any location to any combination of zones in large decentralised systems. Ethernet switches enable a voice alarm compliant ring network topology. INTEGRA and the rack mount equivalent VIPEDIA-12 interoperate seamlessly. Each INTEGRA can process up to 6 concurrent audio channels.

Multiple variants are available, from 3 to 10 channels of amplification. Each individual amplifier can deliver up to 500W, with a total maximum overall load on one INTEGRA of 2000W.

Each amplifier provides dual isolatable A and B loudspeaker circuits and supports both DC and Impedance line surveillance.

INTEGRA supports MPS and EMS paging microphones. Two of the twelve microphone inputs provide hardware bypass to ensure continued all-call Emergency microphone operation even if the INTEGRA router's DSP or CPU have failed. Up to 64 monitored recorded messages can be stored internally, with a total duration of up to 40 minutes.

Powerful DSP based audio processing include input dynamics, individually adjustable digital output delay of up to 5 seconds, and 10 band parametric equalisation.

The unit also includes 12 general purpose control inputs, 12 general purpose control outputs and two relay outputs. Inputs are typically used to interface INTEGRA to the Fire Alarm System. Control capability can be expanded to more than 100 GPIO connections using the BMB01 unit if required.

# Technical Specification

## Power

AC Supply Voltage.....	230V (+25% / - 16%)
AC Supply Frequency.....	50 / 60Hz
Quiescent Current (no amplifiers).....	525mA
Quiescent Current (per amplifier).....	23mA
Maximum Audio Output Power.....	2000W

## Audio - General

Digital Format.....	48kHz / 24-bit PCM
THD.....	<0.01% at 1 kHz
Crosstalk.....	>70 dB at 1 kHz
Residual Noise.....	<90 dBu (A)
Frequency Response.....	20Hz to 20 kHz ±0.5 dB

## Audio - Inputs

Analogue Input Channels.....	12
Input Sensitivity.....	-60 / -40 / -20 / 0 dBu
Max Input Level.....	+20 dBu
Input Trim.....	-90dB to +10 dB (1 dB steps)
Switchable HPF.....	20 to 500 Hz / Slope: 12 dB/oct
EQ.....	4 Band Parametric
Dynamics.....	Gate/Compressor/Limiter
Chime.....	Off / 1 note / 2 note / 3 note / Custom
Chime Level.....	-60 dB to +10 dB (1 dB steps)
Hardware bypass broadcast capability.....	2 inputs

## Audio Processing

Delay (per output).....	1 ms to 5000 ms (1 ms steps)
EQ.....	10 Band Parametric
Dynamics.....	Limiter / Hard Clipper
Loudspeaker Monitoring.....	DC, Impedance, Loop Return

## Battery Pack

Capacity (Ah).....	75AH
Capacity (T).....	24 hours (quiescent) + 30 mins (full power)

## Amplification

Type.....	Transformerless Class D
Amplifier Channels.....	2 / 5 / 10
Standby Amplifiers.....	2 Max
Power output.....	500W
Efficiency.....	>=85%
Frequency response.....	100Hz to 20kHz +/-3dB
THD.....	< 0.5%
Output Noise.....	85dB below full output

## Control Interfaces

Inputs.....	12
Outputs.....	12 (open-collector)
General Fault Relay (With N/O, COM, connections).....	1
Voice Alarm Indicator Relay.....	1
BMB01 IO Expansion Interface.....	1

## Environmental

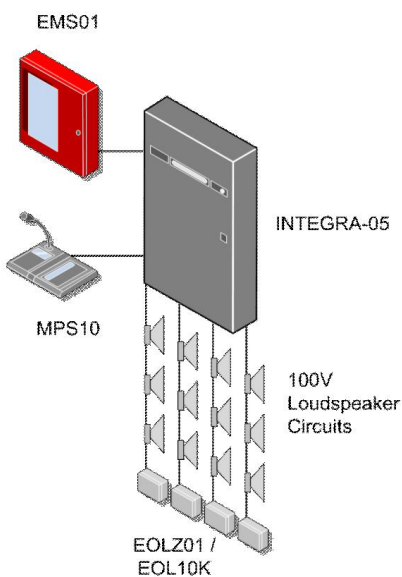
Operating.....	-10°C to +40°C
Storage.....	-20°C to +55°C
Humidity Range.....	0% to 93% non-condensing
Ingress Protection.....	IP32

## Mechanical

Finish.....	Low Smoke Zero Halogen (LSZH)
Dimensions (H x W x D).....	980mm x 600mm x 220mm
Weight (no amplifiers).....	40kg
Weight (BPC75-BAT batteries).....	46kg
Weight (per amplifier channel inc. surveillance).....	0.8kg

## Implementation Options

### Centralised



### Decentralised

