

ZX100

PAGA MANAGEMENT NODE

DS-010 Issue 05



Thank you for your interest in Zitel - we are a UK based manufacturer of PAGA and Intercom products. Our systems are mainly designed for use in the Hazardous Oil, Gas and Petrochemical industries.

The ZX100 is the heart of a high integrity PAGA system. The unit provides secure switching, priority access, zoning and alarm/messaging with control & management embedded in a non-volatile fully configurable environment. The unit is programmed by file download and eliminates impractical chip-based central controllers.

ZITTEL ZX100 HIGH INTEGRITY PAGA MANAGEMENT NODE

Integral status display for rapid fault finding

Connection to ZMIS Global

Fully re-programmable and configurable by file download, no chip exchanges required

Small size, lightweight design – only 1U high

ZEST energy efficient, consuming less power than conventional designs

The ZEST ZX100 is a compact highly integrated management switch designed to form the core operating platform for a secure public address and alarm broadcast system (PAGA). It is housed in a low profile 1 unit high standard 19inch rack-mount enclosure complete with detailed diagnostic display, processor motherboard and plug/socket terminations for rapid plug in/out connectivity.

The ZX100 can be operated as a stand-alone management subsystem or, for more critical applications, in hot standby (N + 1) or A+B configurations. When A+B architecture is specified, the ZX100 provides the necessary optical interfacing to ensure seamless, galvanically isolated, A/B panel synchronization. The ZX100 motherboard is fitted with five slots which enable a range of subscriber access options:-

- SLIC A – Enables connection of up to 3 fully featured Master Access Units (AP100-01 or AP200-01)
- SLIC B – Enables connection of up to 3 Slave Access Units (ZAP10-02 or AP10-02)
- SLIC C – Enables connection for up to three PCAP-12 access units



Photo shows two ZX100 processors in N+1 execution for mission critical applications.

ZITTEL LIMITED

email: sales@zitel.com web: www.zitel.com tel: +44 (0) 115 9202888
mail: 96 Rolleston Drive, Arnold, Nottingham, NG5 7JP United Kingdom

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- SLIC D – Enables control of LTDO13 post switch zone expansion unit or multiple uncommitted output controls.
- SLIC F – Enables extended input addressing (e.g. to ICSS systems)

A total of fifteen access points can be connected to a ZX100 with facilities available externally to allow further expansion almost without limitation. In addition, the ZX100 allows connection of telephone speech from the site PABX / Radio system, Page/Party paging broadcasts from dedicated handsets and optional digitally stored non-volatile pre-recorded messages. High ambient noise sites can be fitted with visual warning flashing beacons which augment acoustic broadcasts. Flashing beacon control is incorporated in ZX100 and allows management of four LTDO02S beacon network termination devices which provide switching for up to 120 flashing beacons per LTDO02S termination module.



Technical Specification

Supply Input	43V to 63Vdc
Power consumption	50 Watts (max)
Access input capability	15 dedicated PAGA access positions Page/Party handsets PABX / Radio telephone paging Digitally stored messaging Engineers' test microphone input
Alarm tone capability	Multiple on-line alarm tones including: PFEER - Evacuate, abandon, general alarms NORSOK – Gas/toxic gas alarms IMO/SOLAS - Alarms Heli-approach/machinery alarms Man overboard alarms Intruder/pirate alarms Hot standby N + 1 alarm tone option
Zone assignment	16 zones of address, plus 'All Call'
Amplifier assignment	Up to 1024 x 350A 350Watt amplifiers
Flashing Beacon control, management and supervision	Up to 480 Beacons
Speech paths	4 audio routes; i.e. simultaneous broadcast of any two alarm tones and any two access positions to any zone menu; non-blocking
Status Display	7-segment displays and colour-coded LEDs
ZMIS GUI	RJ45 Port
Height	1U (44.5mm)
Depth	300mm (12 inches)
Width	483mm (19 inch rack-mount)
Weight	~2.5kg
Operating temperature range	-25°C to +70°C
Location	Safe area/internal

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