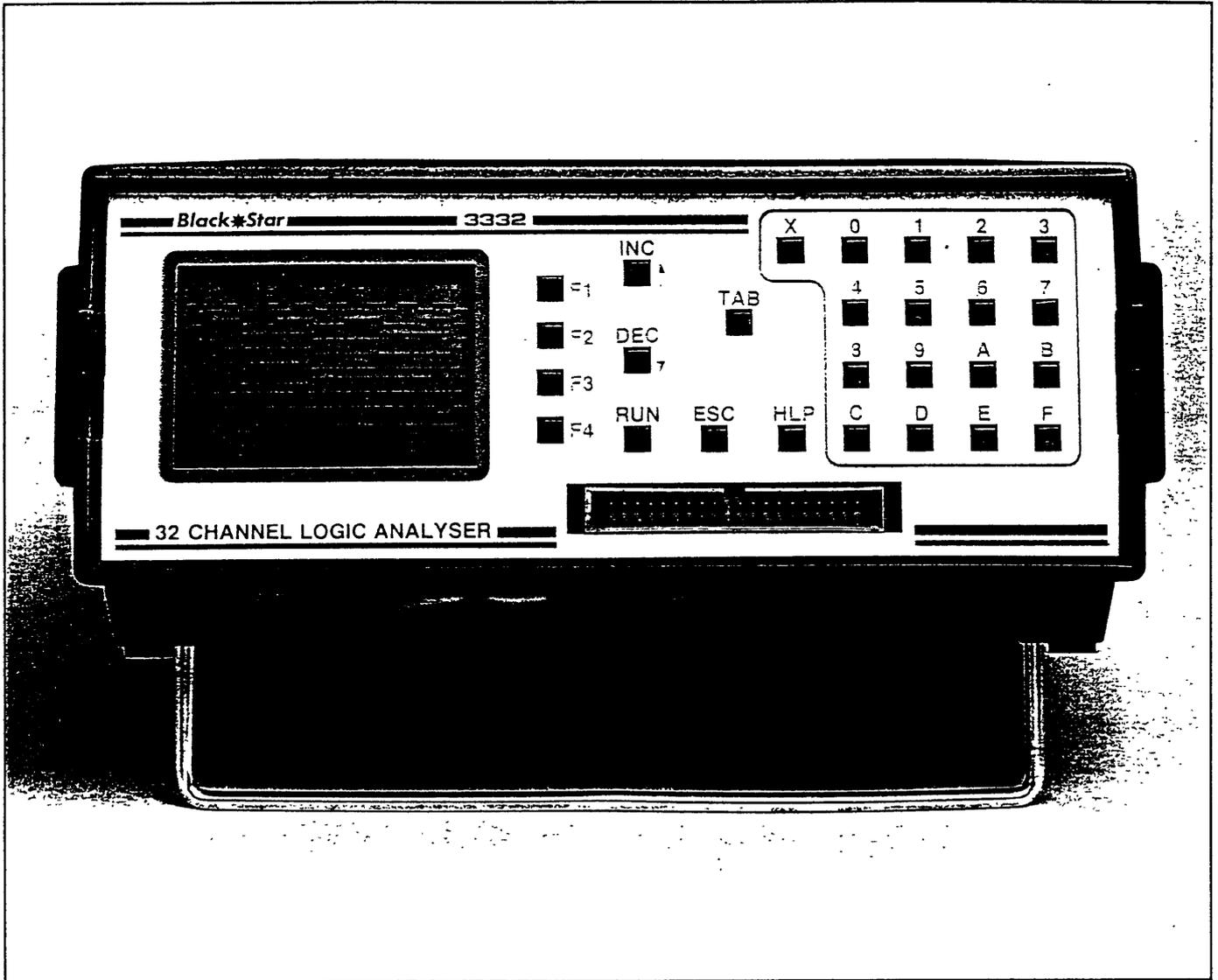


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# 3332

## logic analyser



- 32 channels
- 2k x 32-bit word memory
- non-volatile acquisition and reference memory
- timing diagrams and data state display
- fully menu driven
- 33MHz internal or external clocks
- full screen graphics LCD display
- hex, octal, binary formats
- two trigger and one trace word
- on-screen context sensitive help

**Black★Star**

Designed and manufactured in Britain



# 3332

## LOGIC ANALYSER

### SPECIFICATION

- Acquisition** 32 channels at 33MHz maximum external clock rate. Data capture is in single, repeat or condition repeat modes. Single mode will do one acquisition. Repeat mode will keep doing single acquisitions with a 3 second delay between acquisitions. Condition repeat will keep doing single acquisitions until a comparison between acquisition and reference memories fails. (The failure parameters are selectable.)
- Clocks:** Internal clock 100Hz to 33MHz. 2 external clocks DC to 33MHz positive/negative edge.
- Triggering:** 2 x full 32 bit trigger words. Trigger on either word. Set in either HEX, OCTAL or BINARY. The trigger may be held off so that 2 clocks are required to recognise any trigger. Also the trigger may be delayed until the memory is full.
- Trace:** Full 32 bit trace word. Set in either HEX, OCTAL or BINARY.
- External Triggering:** Full 32 bit external trigger output.
- Inputs:** Either TTL levels (1.4V) or HC levels (2.5V). Input impedance 100k $\Omega$ .
- Memory:** Full 2k deep non-volatile memory for both acquisition and reference memory on all 32 channels.
- Display:** 128 x 64 graphics LCD with up to 20 x 8 characters.
- Display Modes:** Timing display with 8 channels of timing data with selectable resolution from 2048 to 16 locations. This mode also shows cursor and timing bar and one state line in the chosen format. State mode with 6 locations displayed in 16 selectable formats in combinations of HEX, OCTAL or ASCII. This mode also has a cursor bar to show the position in memory. The user may also select compare mode when differences between the acquisition and reference memory are highlighted. In both modes the user may select to display either the acquisition memory or the reference memory.
- Compare:** The user may compare both memories and select the start and end memory location for the comparison.
- Search:** The user may search for a word in memory.
- Printouts:** Timing diagram for 32 channels and 32 bit state output to EPSON compatible printer using RS232 serial output at 4800 baud.
- Operation:** The analyser is operated using menus and function keys. Full context sensitive help is always available.

#### Supplied Accessories:

Personality Module  
PM3332

#### Communications

Pod  
CP3332

Simplifies monitoring of Centronics, GPIB, and RS232 communication buses by the 3332. RS232 9-way, 25-way male and female D connectors, two 36-way Centronics connectors, and a 24-way GPIB connector are provided on a single PCB with 0.5m 40-way ribbon cable connection to the 3332.

#### General:

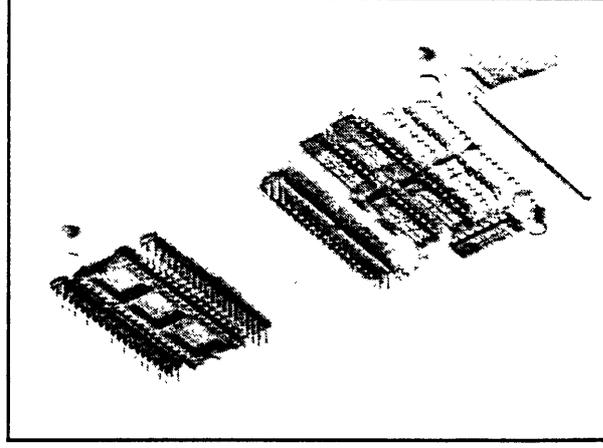
Operating Temp: 0°C to 40°C (Specifications apply from 16°C to 26°C).  
Power Supply: 110/120VAC or 220/240VAC 50/60Hz, user adjustable. 12VA.  
Size: 219mm x 240mm x 98mm (product only).  
Weight: 310mm x 330mm x 135mm (packed).  
1.8kg (product only). 2.3kg (packed).

Instruction Manual, I.E.C. Mains Lead, Spare Fuse.

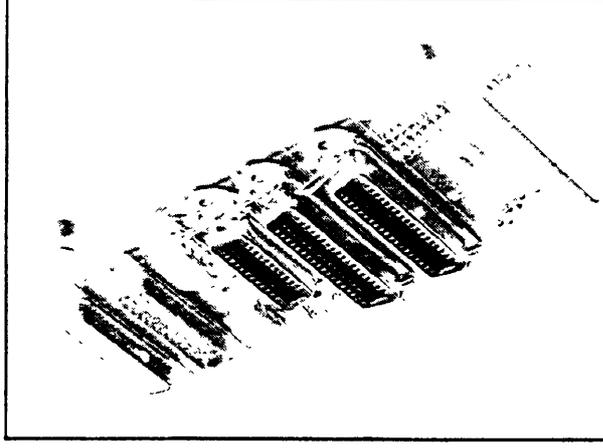
Provides convenient connection between 5V logic or microprocessor systems and the 3332 via 0.5m 40-way ribbon cable. Wire wrap pins provide user-configurable inputs. A 40-way IC socket is provided for optional mounting of the target system microprocessor. All inputs are buffered. Solder-on configuration boards are provided for users of 6502 and Z80 microprocessors.

Simplifies monitoring of Centronics, GPIB, and RS232 communication buses by the 3332. RS232 9-way, 25-way male and female D connectors, two 36-way Centronics connectors, and a 24-way GPIB connector are provided on a single PCB with 0.5m 40-way ribbon cable connection to the 3332.

Operating Temp: 0°C to 40°C (Specifications apply from 16°C to 26°C).  
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Weight: 310mm x 330mm x 135mm (packed).  
1.8kg (product only). 2.3kg (packed).



Personality Module PM3332



Communications Pod CP3332

Designed and Manufactured by:

Available from:

**Black★Star**

BLACK STAR LIMITED  
4 HARDING WAY, ST. IVES,  
HUNTINGDON, CAMBS. PE17 4WR