

# NAUT324C

## PRINTER ENGINE MODULE

The **NAUT324C** is a **3 inch, 24V, Printer Engine Module** with integrated **controller board** and **cutter**, using **RS232** or **USB** communication ports. It consists of a high reliability printer mechanism mounted on a plastic structure with paper roll holder, cover and fixing frame. It can be used for a variety of applications, such as POS terminals, banking devices, measurement instruments, medical and industrial equipments, etc.

### GENERAL FEATURES

- Thermal direct printer
- High printing speed
- High printing resolution
- High reliability printer mechanism
- Single power supply 24V (12V option)
- Easy paper loading system
- Integrated Cutter (easy operation system)
- Anti-jamming and damage prevention
- End of paper detection
- Cover open/close detection
- Patented cover opening system
- Printer status LED
- Paper feed button
- Paper cut button
- Clips for fast fixing
- Integrated electronic control board
- USB or Serial RS232 connections
- Full control over printing quality/speed
- Powerful text printing modes
- Pre-printed Tickets
- Powerful graphic modes
- Barcode support
- Three resident characters fonts, user defined fonts
- 1K EEPROM for user settings
- Easy Firmware update over USB or RS232
- Easy Update of Fonts, Macros, Logos
- Windows XP/XP Embedded/CE/Linux Drivers
- UL Recognized (US & Canada)
- RoHS Compliant

■ **NAUT324C CLOSED**



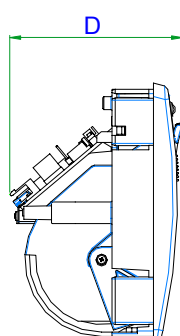
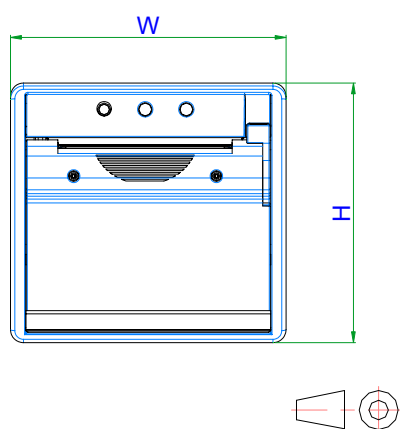
■ **NAUT324C OPEN**



### MAIN APPLICATIONS

- POS terminals
- Banking devices
- Measurement instruments
- Medical equipment
- Industrial equipment
- Cash deposit
- Cash dispenser
- Retail
- Kiosk
- Voting

## AVAILABLE MODELS AND DIMENSIONS



### NAUT324C-63

**DIMENSIONS (W x H x D)**  
127.4 x 120 x 80 mm.

**WEIGHT**  
300 g. without paper roll

**CONNECTION**  
USB  
RS232

**PAPER ROLL DIAMETER (Max.)**  
63 mm.

### NAUT324C-83

**DIMENSIONS (W x H x D)**  
128.4 x 147.7 x 94.7 mm.

**WEIGHT**  
300 g. without paper roll

**CONNECTION**  
USB  
RS232

**PAPER ROLL DIAMETER (Max.)**  
83 mm.

## GENERAL CHARACTERISTICS

### PRINTER SPECIFICATIONS

**PRINTING METHOD**  
Thermal dot-line printing

**NUMBER OF DOTS**  
576

**THERMAL HEAD TEMPERATURE DETECTION**  
Thermistor

**PRINTING RESOLUTION (DPI)**  
203 (8 dots/mm)

**HEAT ELEMENT PITCH (mm)**  
0.125

**PAPER FEED PITCH (mm)**  
0.125

**PRINTING WIDTH (mm)**  
72

**PRINTING SPEED (mm/s)**  
Max. 120

### CUTTER UNIT

**CUTTING METHOD**  
Guillotine

**CUT MODES**  
Full and partial

**CUT FREQUENCY (Max.)**  
20 cuts/minute

**CUT TIME (ms)**  
Max. 500

### OPERATING CHARACTERISTICS

**OPERATING TEMPERATURE (°C)**  
From -10 to +50

**OPERATING HUMIDITY (%RH)**  
From 20 to 85 (no condensation)

**STORAGE TEMPERATURE (°C)**  
From -40 to +80

**STORAGE HUMIDITY (%RH)**  
From 10 to 90 (no condensation)

**VOLTAGE RANGE (V)**  
24 ± 5% (12V option)

**CURRENT CONSUMPTION (A)**  
Average 3.5 / Max. 7

**EMC STANDARD**  
Designed to comply with FCC/CE class B

### PRINTER LIFE SPECIFICATIONS

**PRINT HEAD PULSE LIFE**  
50 million pulses

**PRINT HEAD ABRASION LIFE**  
50 km of paper

**CUTTER LIFE**  
Min. 500.000 cuts

**COVER OPEN/CLOSE**  
5.000 cycles or more

### PAPER SPECIFICATIONS

**TYPE OF PAPER**  
Thermal rolls, outside heat sensitive

**PAPER WIDTH (mm)**  
80 +0/-1

**PAPER WEIGHT (g/m<sup>2</sup>)**  
Min. 55 / Max.80

**PAPER THICKNESS (µm)**  
Min. 63 / Max. 80

**PAPER ROLL OUTSIDE DIAMETER (mm)**  
Max. 63 - NAUT324C-63  
Max. 83 - NAUT324C-83

**ROLL CORE INNER DIAMETER (mm)**  
12.5 +1/-0

**CORE MATERIAL**  
Plastic or cardboard

**PAPER END**  
Not attached to the roll core

**RECOMMENDED PAPER**  
JUJO-AF50KS-E (standard grade, 55 g/m<sup>2</sup>)



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