

P-NA20

Naviop offers a wide range of products that can be used stand-alone, to make limited checks or show small size boats' datas, or can be included within wider configurations for complete control and monitoring systems.

Please contact AcsonMarine to choose the most suitable configuration for your project.

Naviop system on any display



The NA20 unit is the core of the “integrated glass bridge” and Naviop GEN3 visualization system based on WindowsCE 6.0 R2 Operative system and JMobile (runtime) application software.

The unit is specifically designed for use in marine environments and it meets all requirements of ruggedness and reliability. Its die-cast aluminium enclosure has excellent thermal transfer properties.

Provided with a 600MHz processor with fpu unit it can manage the following several input/output video channels and communication ports:

1x single link DVI-I input: it is a port compatible with the DVI 1.0 standard and supports both the VGA analogic interface and the digital one (single link); max. SXGA resolution (1280x1024 @ 60Hz). Images coming from the DVI input can be used and processed by the JMobile graphics engine. The DVI port is compatible with the input video support offered by JMobile.

2x PAL input: the analogic video signals, once decoded, are sent to SOM in ITU656 format and stored in the video memory where the images coming from the DVI input can be used and processed by the JMobile graphics engine. The PAL inputs are compatible with the input video support offered by JMobile.

1x single link DVI-D output: : it is a single link digital port compatible with DVI v1.0 standard and it can support a max. SXGA resolution (1280x1024 @ 60Hz, 64k colour). This port is the NA20output video interface towards a remote display and it is powered by the JMobile graphics engine. NA20 is compatible with the “embedded bridge” application.

1x Ethernet port 10/100 BaseT: Type of connector (M12/8p), pinout and warning led in accordance with NA04 standard.

1x USB port Host and Device: USB port Host can interface with memory devices (memory stick) and pointing ones (mouse). When connected to a display, single or integrated, the USB port Host is used to read the touch coordinates and to manage the special functionalities (brightness control, reading of the touch and light sensor, management of the video cross-point). The USB port Device supports the “bridge software” functionality between a pointing device (touch not included) and a PC connected to it.

Official Dealer:
ACSONMARINE S.r.l.
Via Gramsci,5
47122 Forlì - Italy
Tel. +39 0543 818568
Fax +39 0543 792158
www.acsonmarine.com
info@acsonmarine.com

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Memory

Memory: 128 Mbyte
User Memory: 128 Mbyte flash disk interno
NVRAM: 32 Kbyte FRAM

Interfaces

Ethernet port: 1 x 10/100 Base T (including power supply)
USB port: 1 x USB 2.0 Host 1 x USB 2.0 Device
DVI Input: 1 x Std DVI-I 1.0 single link port (max. res. SXGA 1280x1024 @ 60Hz)
DVI output : 1 x Std DVI-D 1.0 single link port (max. res. SXGA 1280x1024 @ 60Hz, 64k color)
PAL/NTSC: 2 x Camera input

Functionality

Hardware RTC: Yes (super capacitor or rechargeable battery backup)

Controller

CPU: RISC High performance 600MZ

Ratings

Power consumption: 25W max. (TBC)
Power supply voltage: 9:32 Vdc (wide range)

Environmental conditions

Operational temperature: -10 : +55 °C
Operative and storage humidity: 5 : 85% not condensing
Protection class: IP20 (connectors input and output video interfaces)
IP65 (supply and communications connectors, M12 type connectors)

Housing

Housing type: Aluminum housing

Approvals

CE: Yes
EMC Standard: EN60945
RINA: Yes

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