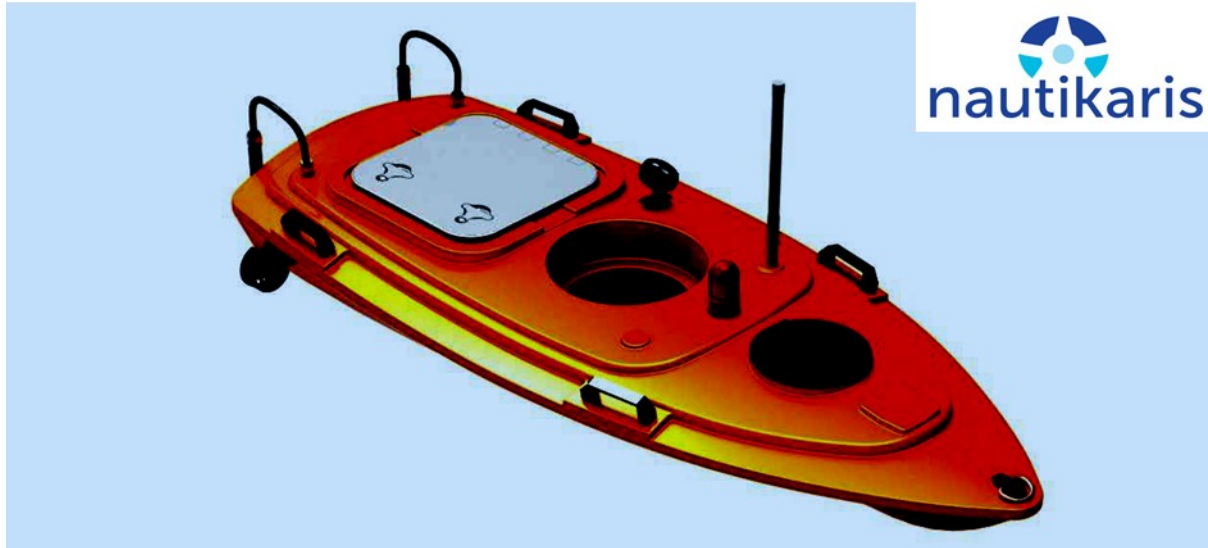


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## NautiQ 651 data

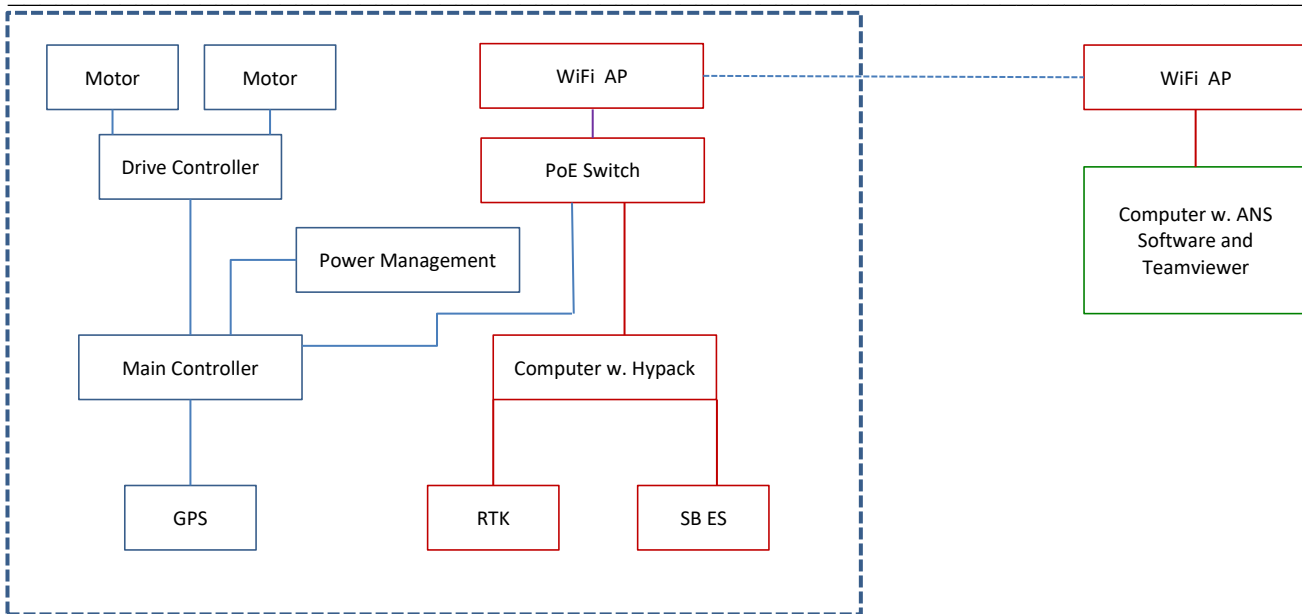


### Consisting of:

1. Hull (PE)
2. Remote controller (2.4Ghz)
3. Hatch
4. Propulsion drive
5. Handle(black)
6. Bracket
7. Waterproof flash light
8. Waterproof switch
9. Watertight antenna

### Autonomous navigation system:

1. Software
2. Main control box
3. Driving box
4. GPS module
5. Futaba Remote controller (2.4Ghz - EU)



## Echosounder technical specifications:

<b>Acoustic Frequency</b>	450 KHz
<b>Beam width</b>	5° Conical (-3dB)
<b>Transmit Pulse Width</b>	10µsec ~ 200µsec (10µsec step)
<b>Ranges</b>	0.15 m ~ 100 m
<b>Housing</b>	Acetal
<b>Connector</b>	USB
<b>Operating Depth</b>	5 m (Cable length dependant)
<b>Repetition (Ping) Rate</b>	10 Hz max
<b>Sampling Rate</b>	100 kHz
<b>Water Column Resolution</b>	>7.5 mm
<b>Altimeter Range Resolution T</b>	<1.0 mm
<b>emperature Resolution</b>	0.1°C
<b>Temperature Accuracy</b>	0.5°C (-10°C ~ +50°C)
<b>Tilt sensor integrated (optional)</b>	
Dual-axis, horizontal operation	±90°
Inclination data accuracy	0.1
<b>Digital Output Interface</b>	USB
<b>Communication Speed</b>	4800 ~ 115200 baud (115200 baud default)
<b>Data Output Format</b>	ASCII TXT, NMEA0183, or user defined (optional)
<b>Configuration and Data reading</b>	Echologger Control Program Or any terminal program
<b>Operation Temperature</b>	-10°C ~ +50°C
<b>Power supply</b>	USB powered, 2W max
<b>Dimensions</b>	D56 mm x L80 mm (without connector)
<b>Weight</b>	420g
<b>Other features</b>	Hypack Compatible (NMEA) GPS integrated data

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## Computer:



- Intel Gen 6 Core i7-6600U 2.6GHz up to 3.4GHz
- 2 x DDR4 2133 MHz SO-DIMM 16GB
- 2 x RJ45 Ports for GbE
- 2 x USB 3.0 Ports, 2 x USB 2.0 Ports
- 4 x RS-232 (2 with RS-422/485 (Auto Direction Control))
- 2 x 512GB SSD
- 9V - 36V DC Power Input
- 40°C ~ 70°C Operating temperat

## Wireless Outdoor Access Point



- IEEE 802.11n wireless outdoor solution, backward compatible with 802.11b/g
- 802.11n 2T2R MIMO data rate up to 300Mbps
- High performance and low maintaining cost for video surveillance
- Wireless QoS (WMM) for video precedence transmission
- Internal 9dBi directional antenna (Vertical 60 ° , Horizontal 70 ° )
- Up to 2KM Wireless coverage
- Supports Base Station, Point to Point, Point to Multiple Point connectivity
- Supports Spanning Tree Protocol, IGMP Snooping, SNMPv3, NTP, DHCP Server, Router mode
- Advanced security system by WPA-PSK(TKIP), WPA2-PSK(AES)
- Built-in 24VDC PoE, to be powered through Ethernet cable
- IP55, -20-70°C operating temperature

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## PoE Switch



- Four 10/100 TX PoE plus two 10/100/1000TX uplink ports
- Vehicle PoE: DC 12V~24V input, deliver 4 port PoE @48V
- 802.3af compliant PoE: Total power budget is 60W\* with max. 15.4W per port
- Two gigabit Ethernet ports for larger uplink bandwidth of surveillance
- Support QoS for optimizing video and VoIP stream
- Fault relay for active warning of port failure
- 25~60oC operating temperature