

RX Ecosystem Partner Solution ETOUCH RX24T + Resolver Solution



Solution Summary

Etouch high resolution position motor control solution is based on Renesas <u>RX24T</u> and <u>RDC</u> (<u>Resolver-to-Digital Converter</u>) <u>IC</u>. The solution provides high resolution, environmental resistance, low sound noise and vibration, low power, low heat, high acceleration/deceleration response.

Features/Benefits

- Resolver control system based on Renesas RX24T MCU and RDC-IC
- Small PCB footprint fits into small motors to output high resolution position
- High-speed response, follow-up quickly for the drastic angle change for step input
- High resolution motor position, above 14-bit resolution
- · Environmental resistance of the resolver, fit a wider range of applications

Diagrams/Graphics





Target Markets and Applications

- Power assistant bicycle
- Automatic guided vehicle (AGV) 3D printer
- General purpose (GP) inverter
- Stepping motor
- Other motor applications

www.etouch.net.cn/anli_show.aspx?CateId=77&NewsId=28

Robot



ETOUCH PROFILE

Etouch was founded in 2001. Now ETOUCH have established offices in Beijing, Shenzhen, Wuxi, Hongkong, Shunde, Hangzhou, Chongqing, Xiamen. Etouch has more than 80 employees, of which R&D Department accounts for one third.

ETOUCH MOTOR SOLUTION

Water pump controller

- Sensorless FOC
- Constant voltage control
- Constant flow control
- Self-adaption flow control
- No water detection



Fan motor controller

- Sensorless FOC
- Constant wind control
- Flux weeken control

Refrigerator with inverter

- •Weak magnetic high-speed control
- Sensorless FOC
- •Heavy starting torque
- •Runing microseism



Inverter W/M

- DDM wheel
- AC Conversion drum
- BLDC