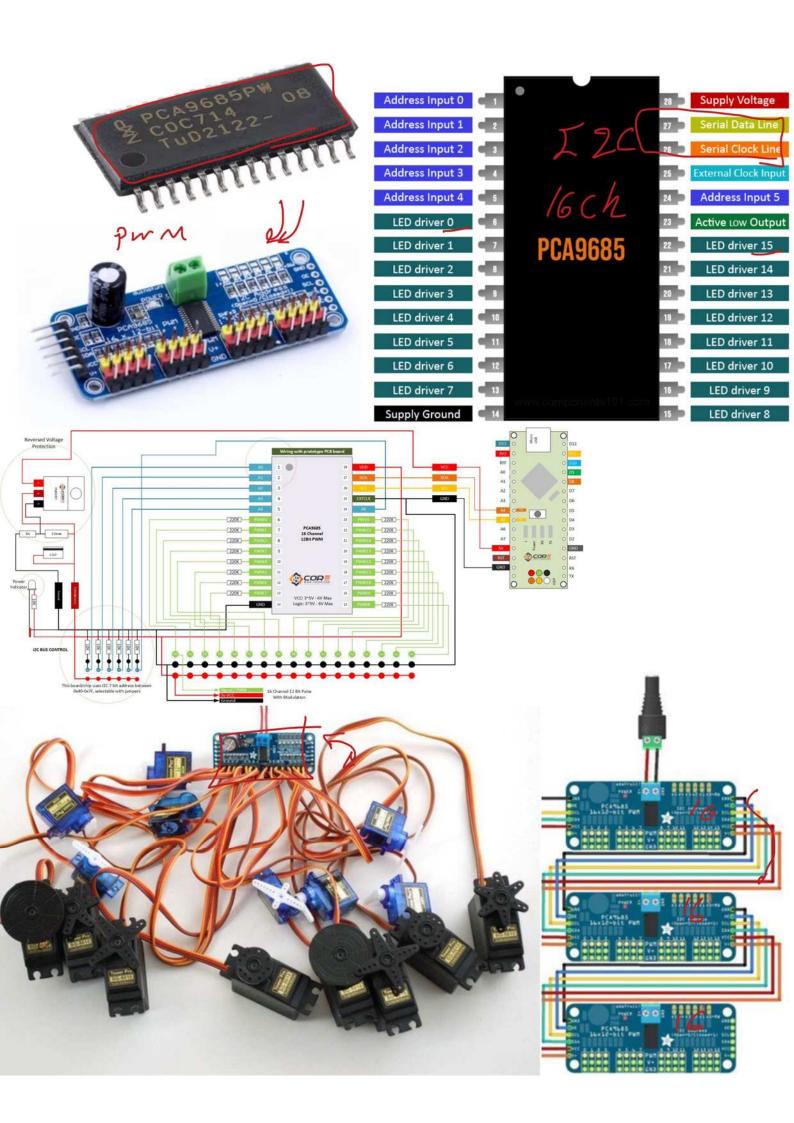
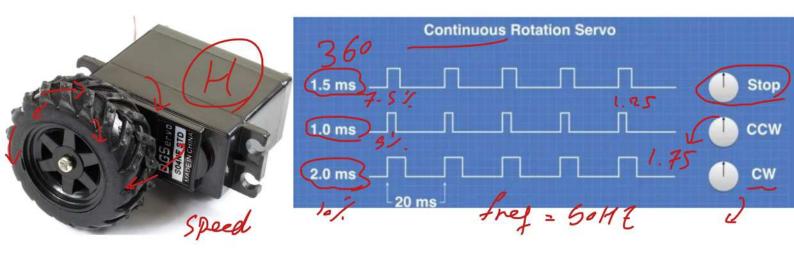
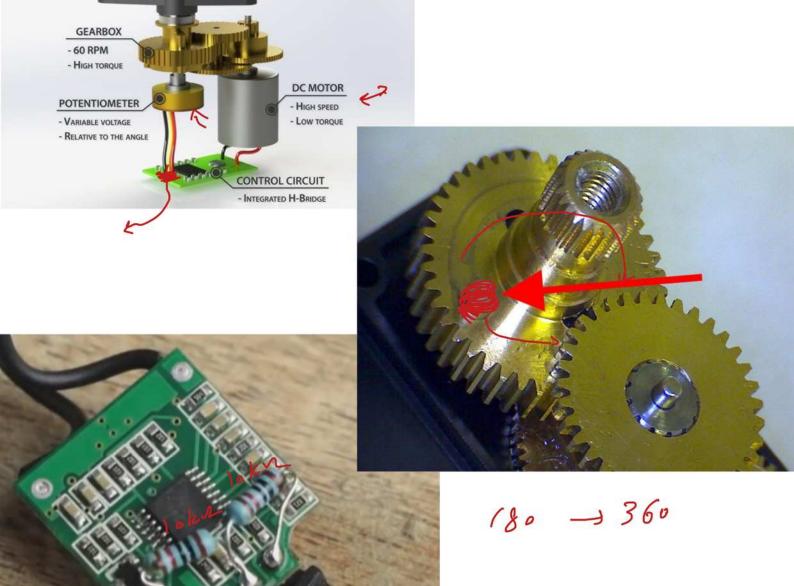


ANR 6ch Amega328

STM





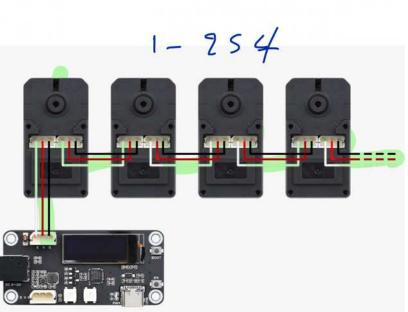












Specification/Feature

Brand

Control Mechanism

Feedback Options

Communication Protocol

Operating Modes

Power Supply Voltage

Torque Output

Resolution

Gear Type Connectivity Protection

Mechanisms

Durability

Supported Models

Application Areas

Temperature Range

Dimensions

Weight

Mounting Options

Programming Interface Description

Robotis

Closed-Loop (feedback-based)

Position, Speed, Torque, Voltage, Temperature

TTL or RS-485

Position Control, Velocity Control, Torque Control, PWM Control

Typically 6V - 24V (varies by model)

model)

Model-dependent (ranges from 1.5 kg·cm to 400 kg·cm for different

models)

High-resolution encoders (depends

on the model)

Plastic or Metal (varies by series)

Daisy-chain network capability

Overheat protection, Overvoltage

detection, Load detection

AX, MX, RX, EX, XL, XM, Pro

Designed for industrial and heavyduty applications

Robotics, Industrial Automation,

Educational Projects, Research Applications

Typically -5°C to 80°C

Varies by model (compact to large industrial sizes)

Model-specific (from lightweig)

Model-specific (from lightweight to heavy-duty designs)

Multiple mounting brackets and

adapters available

Compatible with Robotis software

and open-source platforms

Address	Item	Access	Initial Value
0(0X00)	Model Number(L)	RD	12(0x0C)
1(0X01)	Model Number(H)	RD	0(0x00)
2(0X02)	Version of Firmware	RD	?
3(0X03)	ID	RD,WR	1(0x01)
4(0X04)	Baud Rate	RD,WR	1(0x01)
5(0X05)	Return Delay Time	RD,WR	250(0xFA)
6(0X06)	CW Angle Limit(L)	RD,WR	0(0x00)
7(0X07)	CW Angle Limit(H)	RD,WR	0(0x00)
8(0X08)	CCW Angle Limit(L)	RD,WR	255(0xFF)
9(0X09)	CCW Angle Limit(H)	RD,WR	3(0x03)
10(0x0A)	(Reserved)	*	0(0x00)
11(0X0B)	the Highest Limit Temperature	RD,WR	85(0x55)
12(0X0C)	the Lowest Limit Voltage	RD,WR	60(0X3C)
13(0X0D)	the Highest Limit Voltage	RD,WR	190(0xBE)
14(0X0E)	Max Torque(L)	RD,WR	255(0XFF)
15(0X0F)	Max Torque(H)	RD,WR	3(0x03)
16(0X10)	Status Return Level	RD,WR	2(0x02)
17(0X11)	Alarm LED	RD,WR	4(0x04)
18(0X12)	Alarm Shutdown	RD,WR	4(0x04)
19(0X13)	(Reserved)	RD,WR	0(0x00)
20(0X14)	Down Calibration(L)	RD	?
21(0X15)	Down Calibration(H)	RD	?
22(0X16)	Up Calibration(L)	RD	?
23(0X17)	Up Calibration(H)	RD	?

24(0X18)	Torque Enable	RD,WR	0(0x00)
25(0X19)	LED	RD,WR	0(0x00)
26(0X1A)	CW Compliance Margin	RD,WR	0(0x00)
27(0X1B)	CCW Compliance Margin	RD,WR	0(0x00)
28(0X1C)	CW Compliance Slope	RD,WR	32(0x20)
29(0X1D)	CCW Compliance Slope	RD,WR	32(0x20)
30(0X1E)	Goal Position(L)	RD,WR	[Addr36]value
31(0X1F)	Goal Position(H)	RD,WR	[Addr37]value
32(0X20)	Moving Speed(L)	RD,WR	0
33(0X21)	Moving Speed(H)	RD,WR	0
34(0X22)	Torque Limit(L)	RD,WR	[Addr14] value
35(0X23)	Torque Limit(H)	RD,WR	[Addr15] value
36(0X24)	Present Position(L)	RD	?
37(0X25)	Present Position(H)	RD	?
38(0X26)	Present Speed(L)	RD	?
39(0X27)	Present Speed(H)	RD	?
40(0X28)	Present Load(L)	RD	?
41(0X29)	Present Load(H)	RD	?
42(0X2A)	Present Voltage	RD	?
43(0X2B)	Present Temperature	RD	?
44(0X2C)	Registered Instruction	RD,WR	0(0x00)
45(0X2D)	(Reserved)		0(0x00)
46[0x2E)	Moving	RD	0(0x00)
47[0x2F)	Lock	RD,WR	0(0x00)
48[0x30)	Punch(L)	RD,WR	32(0x20)
49[0x31)	Punch(H)	RD,WR	0(0x00)

