



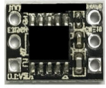



PCBA Type of Servo Motor	Brushless 8pin	Brushless 3pin	Coreless	Core	Mini	Mini
Part No	OP20005	OP20001	OP19023	OP19018	OP20017	OP19012
Photo of Typical Case						
<b>Features</b>						
MCU	32bit MCU	32bit MCU	32bit MCU	8bit MCU	8bit MCU+ 3A Dvrler	8bit MCU+1.2A Driver
MCU Operating Temperature	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C
Operating Voltage	4.8V~8.4V	4.8V~8.4V	4.8V~8.4V	4.8V~8.4V	4.8V~8.4V	4.8V~8.4V
Max Operating Current	6A	6A	6A	6A	3A	1.2A
Quiescent Current	<30mA	<30mA	<30mA	<10mA	<10mA	<10mA
PID Parameters	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Angle Range	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Steady State Error	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Sensitivity	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Dead band	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Lock Protection	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Over Voltage Protection	Yes (Adjustable )	Yes (Adjustable )	Yes (Adjustable )	NA	NA	NA
Over Temperature Protection	Yes (Adjustable )	Yes (Adjustable )	Yes (Adjustable )	Yes (fixed trigger level)	Yes (fixed trigger level)	Yes (fixed trigger level)
Firmware Update	ESMT Boot-loader	ESMT Boot-loader	ESMT Boot-loader	ESMT Boot-loader	ESMT Boot-loader	NA
PWM / UART	*Both Support *Baud rate : 38400~ 1M	*Both Support *Baud rate : 38400~ 1M	*Both Support *Baud rate : 38400~ 1M	*Both Support *Baud rate : 38400~ 1M	*Both Support *Baud rate : 38400~ 1M	*Both Support *Baud rate : 38400~ 1M
XTAL	External	External	External	Internal	Internal	Internal