

-with VBox

# 1. Master

### Mode:

	Argument (8 bytes)	Description
Mode style	1. Header (byte [0])	0x07
	2. Length-low (byte [1])	Length of package =
	3. Length-high (byte [2])	(byte [2] << 8) + byte [1]
	4. space (byte [3])	none
	5. space (byte [4])	none
	6. space (byte [5])	none
	7. space (byte [6])	None
	8. space (byte [7])	none
	9. Header (byte [8])	0x42
	10. Reserved (byte [9])	0x00
	<b>11. Reserved</b> (byte [10])	0x00
	, y	BSD/LCA/RCW: byte[11] = 0x01
20	12. Radar operation mode (byte [11])	BKA/RCTA: byte[11] = 0x02
		DOW: byte[11] = 0x03
	<b>13. Reserved</b> (byte [12])	0x80
<b>&gt;</b>	<b>14. space</b> (byte [13])	none
	<b>15. space</b> (byte [14])	none

<b>16. Check Sum</b> (byte [15])	Check Sum = byte[8]+ byte[1]++ byte[14]
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#### Speed:

Speea:		4
	Argument (8 bytes)	Description
Speed style	1. <b>Header</b> (byte [0])	0x07
	2. Length-low (byte [1])	Length of package =
	3. Length-high (byte [2])	(byte [2] << 8) + byte [1]
	4. space (byte [3])	none
	<b>5. space</b> (byte [4])	none
	<b>6. space</b> (byte [5])	none
	7. <b>space</b> (byte [6])	None
	8. space (byte [7])	none
	9. Header (byte [8])	0x41
	<b>10. Speed</b> (byte [9])	0x00
	<b>11. Gyro</b> (byte [10])	Gyro =
	<b>12. Gyro</b> (byte [11])	(byte [11] << 8) + byte [10]
2	13. Steering angle (byte [12])	Steering angle =
200	14. Steering angle (byte [13])	(byte [13] << 8) + byte [12]
	<b>15. space</b> (byte [14])	None
<b>&gt;</b>	<b>16. Check Sum</b> (byte [15])	Check Sum = byte[8]+ byte[1]++ byte[15]

## 2. Slave

	A (01 )	D · · ·
	Argument (8 bytes)	Description
Time style	1. Header (byte [0])	0x06
	2. Length-low (byte [1])	Length of package =
	3. Length-high (byte [2])	(byte [2] << 8) + byte [1]
		BSD/ LCA/ RCW : byte[3] = $0x01$
	4. Slave-Radar-Mode(byte [3])	BKA/RCTA: byte[3] = 0x02
		DOW: byte[3] = 0x03
		Slow Boolean: byte[4] = 0x01
	5. Slave-Speed-Mode (byte [4])	Medium Boolean: byte[4] = $0x02$
		Fast Boolean: byte $[4] = 0x03$
	6. RCTA_ALARM_BOOL_Tx(byte [5])	ALARM_BOOL
	7. Passenger side LED (byte [6])	Slave_LED
	8. Slave-RCW 警示區段號碼 (byte [7])	Slave_RCW_Status
	9. Slave-BKA 警示區塊號碼 (byte [8])	Slave_BKA_Status
St. o.	<b>10. space</b> (byte [9]) ~ <b>space</b> (byte [62])	none
	11. Check Sum (byte [63])	Check Sum = byte[0]+ byte[1]++ byte[62]

### 3. CAN Protocol

• Nominal Bit Rate: 1M bps

• Data Bit Rate: 1M bps

• Extended Message ID:

■ 0xD0 (Slave  $\rightarrow$  Master)

■ 0xC2 (Master  $\rightarrow$  Slave)