



UDS  
 UDS Flash Bootloader  
 TLE989x BootRAM



TF1011 ECU ECU TSMaster UDS Bootloader APP  
 ECU ECU TLE989x BootRAM

DB9 DB9  
 UDS TSMaster  
 Seed&Key  
 TSMaster  
 3 FBL

Uar -on-CAN

	1 *CAN FD
PC	USB2.0
CAN	DB9
	TSMaster
	1us                      10us
	120
	CAN    DC2500V                      ±4KV                      ±8KV
	USB    DC    (9 ~32 V)
	110*70*36mm
	185g
	-40 ~80
	10%    90%

		UDS	TLE989x                      BootRAM

TF1011  
 USB  
 12V  
 DB9      OBD

TF1011	
Pin1	Po
Pin2	
Pin3	
Pin5	
Pin7	
Pin9	