

oMux.6x2, a part of the Multiplexer product family, is a Body Control Unit that fulfills essential control functions such as door control, signaling, lamp operation, wiper motor control, air

oMux.6x2

Multiplexer

control, signaling, lamp operation, wiper motor control, air conditioner motor control, and window raising/lowering in vehicles. It can be installed in different parts of the vehicle and provide real time information via CAN-Bus communication interface.

ORTEM MUX.5x2 MUNTIPlexer IIO

Due to its capability to execute simultaneous operations, it provides the most cost-effective and economical solution for the vehicle. It can operate 15 oMux devices on the same CAN-Bus with identical embedded software due to its master/slave operation capability. This allows seamless integration and efficient management of multiple oMux units within the vehicle system.

With the user-friendly oMux.Designer development GUI application, one can effortlessly create user-defined scenarios using functional block diagrams. Real-time software updates, diagnostics, and software retrieval processes can be performed via CAN-Bus, ensuring efficient operations and hassle-free maintenance. With the ability of the CAN-Bus communication interface, embedded software updates can be transmitted to all devices concurrently without uninstalling them from the vehicle.



Supply Characteristics		
input voltage Range	9-36 V	
Overvoltage	36 V	
Current (24 V Operation Mode)	30 mA	
Current (24 V Sleep Mode)	3 mA	
Overvoltage (5 minutes)	36 V	
Vbb_Logic Current (For every connector)	0.05 - 1 A	
Vbb_G4 Current (For every connector)	15 A	

Digital Input Characteristics

Input Voltage Range	0-Vbat V
Overvoltage	36 V
Inductive Load Protection	Available
Pull-up/down Resistor	47 ΚΩ
Pin's Capacitance	0.1 µF
Pull-up/down (When Active)	10 ms

2.5A/10A "Half-Bridge" Output Characteristics

Switchable Voltage Range	9 - 36 V
Output Current	-2.5 ~ +10 A
"High-Side" Output ON Resistor	16 mΩ
"Low-Side" Output ON Resistance	50 mΩ
Overvoltage	36 V
PWM Frequency (for HS)	100 Hz
PWM Resolution	1%
Internal Flyback Diode	Unavailable
Inductive Impact Protection	750 V (Peak)

CAN Characteristics

Overvoltage protection	-58 ~ +58 V
Bit Rate	50 - 1000 kbps
J1939 Compatibility	Available
Internal programable termination resistor (120 Ω)	Available

Environmental Conditions

perating Temperature	-40 °C ~ +85 °C
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