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The Integrated Isolated 485/CAN Transceiver

MORNSUN Power

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Company Overview







Manufacturing Center in Huaihua

R&D Center in Guangzhou

Headquarter in Guangzhou

Established:1998	Factory:60000+square meters
Registered Capital: USD \$30+ million	Employees: 2600+
Patents & IPRs:1000+	■ Business Coverage:Global
■ Information Management: OA & ERP & C	CRM & EHR & PLM & ISP

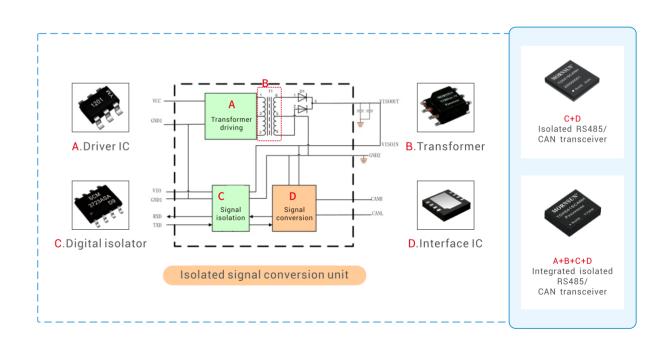
Certifications: ISO9001, IATF16949, ISO14001, OHSAS18001

485/CAN Product Line

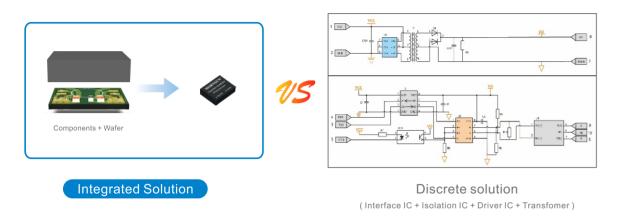
Product type	Interfere 10	Signal includion IC	Non integration	Integration	
Low speed	Interface IC	Signal isolation IC SCM3721A SCM3723A	Non-integration	Integration TDx31S485 TDx31SCAN	Protocol conversion
Fast speed	SCM342xA SCM340xA	SCM3725A SCM3725A SCM3728A		TDx31S485H TDx31SCANH	
Ultra fast speed				TDx31SCANFD	
High-speed enhanced				TDx31S485H-E	
Automatic transceiving				TDx31S485H-A	
DFN high speed	SCM3401B		TD041S485H TD041SCANH TD041S485H-A TD041S485S TD041S485S-F	TD541S485H TD541SCANH TD541S485H-A TD541S485S TD541S485S-F	
CAN FD			TD041SCANFD	TD541SCANFD	
Automotive high speed				CTDx31SCANH	
Low consumption				TDx31S485-L	
				TDHx01D485H	
High isolation voltage				TDH541S485H TDH541SCANH TDH541SCANFD TDH541S485H-A TDH541S485S-F	
High surge protection				TDx01D485HE	
Integrated AC/DC power				TLAxx-03K485(L) TLAxx-03KCAN	
UART/SPI to CAN					TDxUSPCAN
Dual-channel low speed				TDx22DCAN	
Dual-channel high speed				TDx22D485H-A	

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Automotive electronics	Railway	Industrial control	Medical device	
IoT	Electricity	Mining	Military	

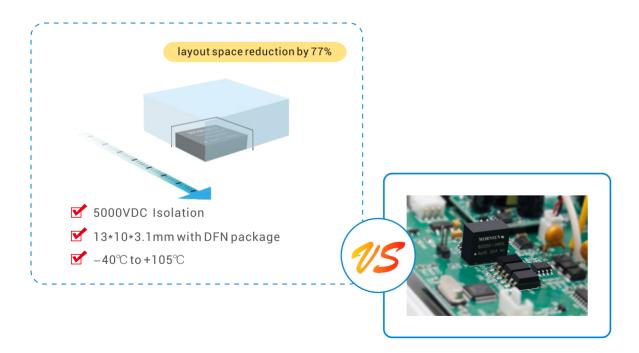


Advantages of Integrated Solution



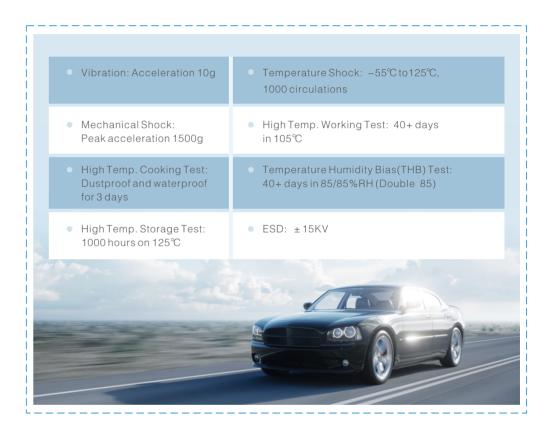
$m{1}$ Small Size for Industry Trend

Compared with the discrete solution, the R4 series with System in Packaging (Chiplet SiP) technology reduces layout space by 77% and dimensions more than 90%.



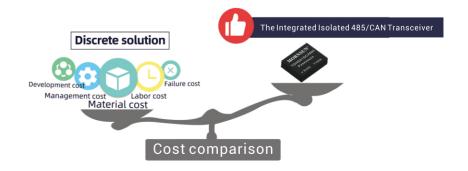
2 High Reliability to Meet AEC-Q100

R4 series balances normalized materials, production automation, higher product consistency, reliability and easy to use.



3 R4 series to save cost

The cost of any solution includes not only development cost and material cost but also manufacturing cost, management cost, maintenance cost, .etc.



Typical Application

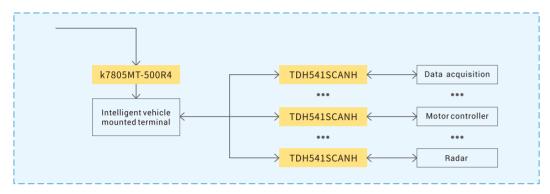


RS485/CAN transceiver with integrated power supply

The product integrates 5V high-efficiency isolated power supply, reduces dimensions and improves reliability.



Typical application: Intelligent ADAS system on board



Features



₹

 $3.1 mm \ thickness \ with \ DFN \ package$



Isolated voltage up to 5000VDC



Meet AEC-Q100

Product number	Type of bus	Baud rate (bps)	Digital I/O Voltage (VDC)	Node number	Isolated voltage (VDC)	Package
TD541S485H	RS485	1M	3.3,5	256	3000	DFN
TDH541S485H	RS485	1M	3.3,5	256	5000	DFN
TD541SCANH	CAN	1M	3.3,5	110	3000	DFN
TDH541SCANH	CAN	1M	3.3,5	110	5000	DFN
TD541SCANFD	CAN FD	5M	3.3,5	110	3000	DFN
TDH541SCANFD	CAN FD	5M	3.3,5	110	5000	DFN
TD541S485H-A	RS485	500K	3.3,5	256	3000	DFN
TDH541S485H-A	RS485	500K	3.3,5	256	5000	DFN
TD541S485S	RS485	12M	3.3,5	256	3000	DFN
TD541S485S-F	RS485	10M	3.3,5	256	3000	DFN
TDH541S485S-F	RS485	10M	3.3,5	256	5000	DFN

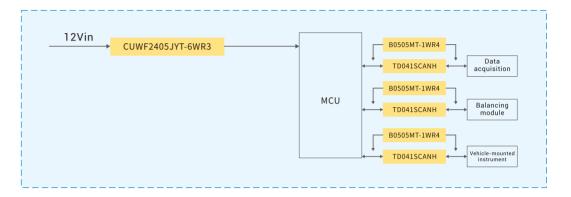


Isolated RS485/CAN transceiver



The series can be matched with power supply to improve system reliability.

Typical application: Automotive electronics-main control BCU



Features





1.6mm thickness with DFN package





TD041S485/CANH



Meet AEC-Q100

Product number	Type of bus	Baud rate (bps)	Digital I/O Voltage (VDC)	Node number	Isolated voltage (Vrms)	Package
TD041S485H	RS485	1M	3.3,5	256	3750	DFN
TD041SCANH	CAN	1M	3.3,5	110	3750	DFN
TD041SCANFD	CAN FD	5M	3.3,5	110	3750	DFN
TD041S485H-A	RS485	500K	3.3,5	256	3750	DFN
TD041S485S	RS485	12M	3.3,5	256	3750	DFN
TD041S485S-F	RS485	10M	3.3,5	256	3750	DFN