

# CCM12

**CATTRON**CONTROL®

**CAN-bus radio remote control receiver for industrial vehicle and machine applications. Wireless gateway between communications bus on the vehicle or machine and a variety of radio remote control transmitter units.**

- CANopen Communication Profile CiA DS 301 V4.02
- High safety-class through dual node hardware and software architecture
- Operates in many radio frequencies for worldwide deployment
- With data feedback option back to the transmitter unit
- Features 2 monitored safety relays
- High-impact-resistant housing with protection class IP66
- Compatible with several transmitter types and models



**CATTRON**  
*theimeg*™

Industrial Radio Remote Controls

- Dual CAN-bus interfaces complying ISO 11898-2
- Optional with vehicle bus standard SAE J1939
- Additional dual safety relay output
- Galvanically isolated bus electronics
- Supports all standard baud rates

## TECHNICAL DATA AND SPECIFICATIONS

RF	
Frequency range	335 MHz 418–419 MHz 433–434 MHz 447 MHz 450–470 MHz 868–869 MHz 903–927 MHz
Transmission speed	4.8 to 20 kbit/s
Modulation	FM
RF channel spacing	12.5 kHz; 25 kHz and others
Antenna	external
Interface	TNC-jack or RP-TNC-jack (903–927 MHz)

Electronics	
Digital circuitry	Dual-processor technology
System address	24 bits = 16 million addresses
TransKey	System address, RF channel and configuration
Power supply	6–36 V DC
Current	< 300 mA at 12 V DC < 175 mA at 24 V DC
STOP command	2 forced-guided safety relays 4 A / 125 V AC
Protection	Reverse polarity, load dumps and electrical transients

Standards	
Safety	EN 954-1 Category 3 EN 13849-1 Performance Level d
Protection class	IP66

Mechanical Data	
Dimensions	122 x 144 x 48 mm ( L x W x H )
Operating temperature	-20 to +60° C

CAN Interface	
CAN format	CAN 2.0A and CAN 2.0B
BUS speed	10, 20, 50, 125, 250, 500, 800 and 1000 kbps
Standard	ISO 11898-2 optional support of SAE J1939 vehicle bus standard
Protection	exceeds ISO 11898-2 Bus fault protection ( -27 to +40 V) Transient voltage (-200 to +200 V)
Connector	24 way micro-pack male connector
Communication profile	DS 301 V4.02

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