WiCAN2400 Manual

Rev 1.0.0.0

DESCRIPTION

- TRANSCEIVER FOR AUTOMOTIVE CAN BUS WIRELESS LINK.
- Can Bus Interface, CAN Open support.
- Master Module and Slave Module must have different NodeID.

PIN-OUT

PIN	ID Code	Signal	Note
1A	+ VB	+24/24Vbatt	Power supply from vehicle battery to logic
2A			
3A			
4A			
5A			
6A			
7A			
8A			
1B			
2B			
3B			
4B			
5B			
6B			
7B			
8B			
1C	- VB	GND	GND supply from vehicle battery to logic
2C			
3C			
4C			
5C	CANL		CAN Low Line
6C	CANH		CAN High Line
7C			
8C			

CAN OPEN MESSAGE DESCRIPTION

HeartBeat Message:

ID	Byte0	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7
700h + NodeID	0	MsgType	0	0	MdsUnit	FlashAlarm	SW Version	
0c000280h + (PGN*100h)+N.I	0	MsgType	0	0	MdsUnit	FlashAlarm	SW Version	

SDO RX Messagge:

ID	Byte0	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7
600h + NodeID	Command	Object ID		Subindex	Data			
0c000480h + (PGN*100h)+N.I	Command	Object ID		Subindex	Data			

SDO TX Messagge:

ID	Byte0	Byte1	Byte2	Byte3	Byte4	Byte5	Byte6	Byte7
580h + NodeID	Answer	Object ID		Subindex	Data			
0c000380h + (PGN*100h)+N.I	Answer	Object ID		Subindex	Data			

Command / Answer

Command	
22h	Write request max 4 bytes
23h	Write request 4 bytes
2bh	Write request 2 bytes
2fh	Write request 1 byte
60h	Answer to Write request
40h	Read request
42h	Answer to Read request max 4 bytes
43h	Answer to Read request 4 bytes
4bh	Answer to Read request 2 bytes
4fh	Answer to Read request 1 bytes
80h	Error

Error Codes:

05040001h	Command byte not supported
06010000h	Wrong object access
06010001h	Read access in write only
06010002h	Write access in read only
06020000h	Object not supported
06090011h	Subindex not supported
06090030h	Value range of parameter exceeded
06090031h	Value of parameter written to high
08000000h	General error
08000020h	Data cannot be transferred or stored to the application
08000021h	Data cannot be transferred or stored to the application because of local control

CanOpen Objects:

Object	Name	Type	Attr	Default	Description
1001	Error Register	U16	ro		Current Alarm
1009	Hardware Version	U32	ro		
1010	Parameters Save				
0	Subindex no.		ro		
1	Save all parameters	U32	wo		="save" (0x65766173)
100A	Software Version	U32	ro		
1800	MsgType	U16	rw	0	Can standard (0) – can extended (1)
2100	Baudrate	U8	rw	5	Baudrate (see table below)
2101	NodeID	U8	rw	9 or 10	Node ID
2103	MDSunit	U8	rw	9 or 10	Winscope Unit

Baudrate Table:

Index	Baudrate
2	50 kBaud
3	100 kBaud
4	125 kBaud
5	250 kBaud
6	500 kBaud

WINSCOPE DESCRIPTION

ID Winscope CAN Messages:
- Order 0x40
- Reply 0x41

Parameters description (per Winscope):

N°	Name	Description	Default
0	NodeID	Node ID CanOpen	9 for Master 10 for Slave
1	MDSunit	Winscope Unit	9 for Master 10 for Slave
2	Baudrate	Baudrate (see table below)	5
3	PGN	PGN	0
4	MsgType	Message id standard (0), id extended (1)	0

FCC ID WXN WICAN2400

The device complies with part 15 of the FCC Rules. Operation is subjected to the following 2 conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.