

Appendix

Multi-vendor Applications

Basic I/O Slave Device Protocol

General data	Compatible DeviceNet Specifications	Volume I - Release 1.3 Volume II - Release 1.2	
	Header name	OMRON Corporation	Header ID = 47
	Device protocol name	Slaves: Generic	Protocol number = 0
	Manufacturer catalog number	W347	
	Manufacturer revision	1.3	
Physical conformance data	Network current consumption	24 VDC at 45 mA max.	
	Connector type	Open plug	
	Physical insulation	Yes	
	Supported indicators	Module, Network	
	MAC ID setting	DIP switch	
	Default MAC ID	0	
	Baud rate setting	DIP switch	
Communications data	Supported baud rates	125 kbps, 250 kbps, and 500 kbps	
	Predefined Master/Slave connection set	Group 2 only server	
	Dynamic connection support (UCMM)	Yes	
Communications data	Explicit message fragmentation support	Yes	

Object Mounting

Identity Object (0x01)

Object class	Attributes	Not supported
	Services	Not supported

Item	ID	Contents	Get (read)	Set (write)	Value
Object instance	Attributes	1 Vendor	Yes	No	47
		2 Product type	Yes	No	0
		3 Product code	Yes	No	305
		4 Revision	Yes	No	1.3
		5 Status (bits supported)	Yes	No	---
		6 Serial number	Yes	No	Unique for each Unit
		7 Product name	Yes	No	E5ZE
		8 State	No	No	---

Item		DeviceNet service	Parameter option
Object instance	Services	05 Reset	No
		0E Get_Attribute_Single	No

Message Router Object (0x02)

Object class	Attributes	Not supported
	Services	Not supported
Object instance	Attributes	Not supported
	Services	Not supported
Header specification addition		No

DeviceNet Object (0x03)

Item		ID	Contents	Get (read)	Set (write)	Value
Object class	Attributes	1	Revision	No	No	---
	Services	Not supported				

Item		ID	Contents	Get (read)	Set (write)	Value
Object instance	Attributes	1	MAC ID	Yes	No	---
		2	Baud rate	Yes	No	---
		3	BOI	Yes	No	00 (hexadecimal)
		4	Bus Off counter	Yes	No	---
		5	Allocation information	Yes	No	---
		6	MAC ID switch changed	No	No	---
		7	Baud rate switch changed	No	No	---
		8	MAC ID switch value	No	No	---
		9	Baud rate switch value	No	No	---

Item		DeviceNet service		Parameter option
Object instance	Services	0E	Get_Attribute_Single	No
		4B	Allocate_Master/Slave_Connection_Set	No
		4C	Release_Master/Slave_Connection_Set	No

Assembly Object (0x04)

Object class	Attributes	Not supported
	Services	Not supported

Item		ID	Contents	Get (read)	Set (write)	Value
Object instance	Attributes	3	Data	Yes	Yes	---

Item		DeviceNet service		Parameter option
Object instance	Services	0E	Get_Attribute_Single	No
		10	Set_Attribute_Single	No

Connection Object (0x05)

Object class	Attributes	Not supported
	Services	Not supported
	Max. number of active connections	1

Item	Section	Information	Max. number of interfaces
Object interface 1	Interface type	Explicit Message	1
	Production trigger	Cyclic	---
	Transport type	Server	---
	Transport class	3	---

Item		ID Contents	Get (read)	Set (write)	Value
Object interface 1	Attributes	1 State	Yes	No	---
		2 Instance type	Yes	No	00 (hexadecimal)
		3 Transport class trigger	Yes	No	83 (hexadecimal)
		4 Produced connection ID	Yes	No	---
		5 Consumed connection ID	Yes	No	---
		6 Initial comm. characteristics	Yes	No	21 (hexadecimal)
		7 Produced connection size	Yes	No	4000 (hexadecimal)
		8 Consumed connection size	Yes	No	4000 (hexadecimal)
		9 Expected packet rate	Yes	Yes	---
		12 Watchdog time-out action	Yes	No	01
		13 Produced connection path length	Yes	No	00
		14 Produced connection path	Yes	No	00_00_00_00_00_00
		15 Consumed connection path length	Yes	No	00
		16 Consumed connection path	Yes	No	00_00_00_00_00_00
		17 Production inhibit time	Yes	No	---

Item		DeviceNet service	Parameter option
Object interface 1	Services	0E Get_Attribute_Single	No
		10 Set_Attribute_Single	No

Item	Section	Information	Max. number of interfaces
Object interface 2	Interface type	Polled I/O	1
	Production trigger	Cyclic	---
	Transport type	Server	---
	Transport class	2	---

Item		ID Contents	Get (read)	Set (write)	Value
Object interface 2	Attributes	1 State	Yes	No	---
		2 Instance type	Yes	No	01 (hexadecimal)
		3 Transport class trigger	Yes	No	82 (hexadecimal)
		4 Produced connection ID	Yes	No	---
		5 Consumed connection ID	Yes	No	---
		6 Initial comm. characteristics	Yes	No	01 (hexadecimal)
		7 Produced connection size	Yes	No	1C00 (hexadecimal)
		8 Consumed connection size	Yes	No	1200 (hexadecimal)
		9 Expected packet rate	Yes	Yes	---
		12 Watchdog time-out action	Yes	No	00
		13 Produced connection path length	Yes	No	00
		14 Produced connection path	Yes	No	00_00_00_00_00_00
		15 Consumed connection path length	Yes	No	00
		16 Consumed connection path	Yes	No	00_00_00_00_00_00
		17 Production inhibit time	Yes	No	---

Item		DeviceNet service	Parameter option
Object interface 2	Services	0E Get_Attribute_Single	No
		10 Set_Attribute_Single	No

Item	Section	Information	Max. number of interfaces
Object interface 3	Interface type	Bit strobed I/O	1
	Production trigger	Cyclic	---
	Transport type	Server	---
	Transport class	2	---

Item	ID	Contents	Get (read)	Set (write)	Value
Object interface 3	Attributes	1 State	Yes	No	---
		2 Instance type	Yes	No	01 (hexadecimal)
		3 Transport class trigger	Yes	No	82 (hexadecimal)
		4 Produced connection ID	Yes	No	---
		5 Consumed connection ID	Yes	No	---
		6 Initial comm. characteristics	Yes	No	01 (hexadecimal)
		7 Produced connection size	Yes	No	0000 (hexadecimal)
		8 Consumed connection size	Yes	No	0100 (hexadecimal)
		9 Expected packet rate	Yes	Yes	---
		12 Watchdog time-out action	Yes	No	00
		13 Produced connection path length	Yes	No	00
		14 Produced connection path	Yes	No	00_00_00_00_00_00
		15 Consumed connection path length	Yes	No	00
		16 Consumed connection path	Yes	No	00_00_00_00_00_00
		17 Production inhibit time	Yes	No	---

Item		DeviceNet service	Parameter option
Object interface 3	Services	0E Get_Attribute_Single	No
		10 Set_Attribute_Single	No

Item	Section	Information	Max. number of interfaces
Object interface 4	Interface type	UCMM Explicit Msg	1
	Production trigger	Application Object Triggered	---
	Transport type	Server	---
	Transport class	2	---

Item		ID	Contents	Get (read)	Set (write)	Value
Object interface 4	Attributes	1	State	Yes	No	---
		2	Instance type	Yes	No	00 (hexadecimal)
		3	Transport class trigger	Yes	No	83 (hexadecimal)
		4	Produced connection ID	Yes	No	---
		5	Consumed connection ID	Yes	No	---
		6	Initial comm. characteristics	Yes	No	33 (hexadecimal)
		7	Produced connection size	Yes	No	0100 (hexadecimal)
		8	Consumed connection size	Yes	No	0100 (hexadecimal)
		9	Expected packet rate	Yes	Yes	---
		12	Watchdog time-out action	Yes	No	01
		13	Produced connection path length	Yes	No	00
		14	Produced connection path	Yes	No	00_00_00_00_00_00
		15	Consumed connection path length	Yes	No	00
		16	Consumed connection path	Yes	No	00_00_00_00_00_00
		17	Production inhibit time	Yes	No	---

Item		DeviceNet service		Parameter option
Object interface 4	Services	0E	Get_Attribute_Single	No
		10	Set_Attribute_Single	No