

Index	No. Sub-index	Name	Description	Object type	Default value	Access
0x1014	0	COB-ID Emergency Object (EMCY)	Defines the COB-ID of the Emergency Object	Unsigned 32	Node ID + 0x80	RW
	0	Inhibit time (EMCY)	Defines the inhibit time for the Emergency Object (multiple of 100 µs)	Unsigned 32	0x00000000	RW
0x1015	2	Consumer heartbeat time	Defines the heartbeat cycle time (multiple of 1 ms)	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub index supported	Unsigned 8	0x01	RO
0x1016	Sub Index 1	Consumer heartbeat time	Heartbeat time	Unsigned 32	0x00000000	RW
	0	Producer heartbeat time	Defines the heartbeat cycle time (multiple of 1 ms)	Unsigned 16	0x0000	RW
0x1017	5	Identity	Contains the general information about the device	Record	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub index supported	Unsigned 8	0x04	RO
0x1018	Sub Index 1	Vendor ID	Horner APG Unique code	Unsigned 32	0x00000044	RO
	Sub Index 2	Product code	HE389DIQ516 ID code	Unsigned 32	0x00000006	RO
0x1019	Sub Index 3	Revision number	Revision number	Unsigned 32	0x00000000	RO
	Sub Index 4	Serial number	Serial number code	Unsigned 32	0x00000000	RO
0x1020	2	Error behaviour	Defines the behaviour of the device in case of error encountered	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of error classes	Unsigned 8	0x01	RO
0x1021	Sub Index 1	Communication error	Defines the device condition for a communication error	Unsigned 8	0x00	RW
	3	Server SDO parameters	Describes the SDO communication channel for the node	Array	-----	----
0x1022	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x02	RO
	Sub Index 1	COB ID Client to Server (Receive SDO)	Defines the COB ID in case of receiving SDO	Unsigned 32	Node ID + 0x600	RO
0x1023	Sub Index 2	COB ID Server to Client (Transmit SDO)	Defines the COB ID in case of transmitting SDO	Unsigned 32	Node ID + 0x580	RO
	3	1st RPDO communication parameters	List of the parameters of the 1 st RPDO	Record	-----	----
0x1024	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x02	RO
	Sub Index 1	COB ID	Defines the COB ID of the PDO	Unsigned 32	Node ID + 0x200	RO
0x1025	Sub Index 2	Transmission type	Defines the transmission type for the RPDO	Unsigned 8	0xFF	RW
	2	1st RPDO mapping parameters	List of mapping parameters of the 1 st RPDO	Array	-----	----
0x1026	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x02	RW
	Sub Index 1	Mapped Object 1	Defines the 1 st object mapped into RPDO	Unsigned 32	0x62000108	RW

Index	No. Sub-index	Name	Description	Object type	Default value	Access
0x1800	5	1st TPDO communication parameters	List of the parameters of the 1 st TPDO	Record	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x05	RO
	Sub Index 1	COB ID	Defines the COB ID of the PDO	Unsigned 32	Node ID + 0x180	RW
	Sub Index 2	Transmission type	Defines the transmission type for the TPDO	Unsigned 8	0xFF	RW
	Sub Index 3	Inhibit timer	Defines the delay to transmit the next PDO (multiple of 100 μ s)	Unsigned 16	0x0000	RW
	Sub Index 5	Event timer	Transmits the PDO when the timer is expired (multiple of 1 ms)	Unsigned 16	0x0000	RW
0x1801	5	4th TPDO communication parameters	List of the parameters of the 4 th TPDO	Record	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x05	RO
	Sub Index 1	COB ID	Defines the COB ID of the PDO	Unsigned 32	Node ID + 0x280	RW
	Sub Index 2	Transmission type	Defines the transmission type for the TPDO	Unsigned 8	0xFF	RW
	Sub Index 3	Inhibit timer	Defines the delay to transmit the next PDO (multiple of 100 μ s)	Unsigned 16	0x0000	RW
	Sub Index 5	Event timer	Transmits the PDO when the timer is expired (multiple of 1 ms)	Unsigned 16	0x0000	RW
0x1802	5	5th TPDO communication parameters	List of the parameters of the 5 th TPDO	Record	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x05	RO
	Sub Index 1	COB ID	Defines the COB ID of the PDO	Unsigned 32	Node ID + 0x380	RW
	Sub Index 2	Transmission type	Defines the transmission type for the TPDO	Unsigned 8	0xFF	RW
	Sub Index 3	Inhibit timer	Defines the delay to transmit the next PDO (multiple of 100 μ s)	Unsigned 16	0x0000	RW
	Sub Index 5	Event timer	Transmits the PDO when the timer is expired (multiple of 1 ms)	Unsigned 16	0x0000	RW
0x1803	5	6th TPDO communication parameters	List of the parameters of the 6 th TPDO	Record	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x05	RO
	Sub Index 1	COB ID	Defines the COB ID of the PDO	Unsigned 32	Node ID + 0x480	RW
	Sub Index 2	Transmission type	Defines the transmission type for the TPDO	Unsigned 8	0xFF	RW
	Sub Index 3	Inhibit timer	Defines the delay to transmit the next PDO (multiple of 100 μ s)	Unsigned 16	0x0000	RW
	Sub Index 5	Event timer	Transmits the PDO when the timer is expired (multiple of 1 ms)	Unsigned 16	0x0000	RW
0x1A00	2	1st TPDO mapping parameters	List of mapped parameters of the 1 st TPDO	Array	-----	----
	Sub Index 0	Number of mapped objects	Contains the number of sub-index supported	Unsigned 8	0x01	RO

Index	No. Sub-index	Name	Description	Object type	Default value	Access
0x1A01	3	4th TPDO mapping parameters	List of mapped parameters of the 4 th TPDO	Array	-----	----
	Sub Index 0	Number of mapped objects	Contains the number of sub-index supported	Unsigned 8	0x02	RO
	Sub Index 1	Mapped Object 1	Defines the 1 st object mapped into TPDO	Unsigned 32	0x21110120	RW
	Sub Index 2	Mapped Object 2	Defines the 2 nd object mapped into TPDO	Unsigned 32	0x21110220	RW
0x1A02	3	5th TPDO mapping parameters	List of mapped parameters of the 5 th TPDO	Array	-----	----
	Sub Index 0	Number of mapped objects	Contains the number of sub-index supported	Unsigned 8	0x02	RO
	Sub Index 1	Mapped Object 1	Defines the 1 st object mapped into TPDO	Unsigned 32	0x21110320	RW
	Sub Index 2	Mapped Object 2	Defines the 2 nd object mapped into TPDO	Unsigned 32	0x21110420	RW
0x1A03	3	6th TPDO mapping parameters	List of mapped parameters of the 6 th TPDO	Array	-----	----
	Sub Index 0	Number of mapped objects	Contains the number of sub-index supported	Unsigned 8	0x02	RO
	Sub Index 1	Mapped Object 1	Defines the 1 st object mapped into TPDO	Unsigned 32	0x21110520	RW
	Sub Index 2	Mapped Object 2	Defines the 2 nd object mapped into TPDO	Unsigned 32	0x21110620	RW
0x2101	0	Can Node ID	Defines which is the default CAN node number of the device	Unsigned 8	0x7F	RO
Values available: from Dec.1 (0x01) up to Dec 127 (0x7F). The values are programmable only from dip switch.						
0x2102	0	Can bit rate	Defines which is the default bit rate value	Unsigned 8	0x03	RO
Decimal and Hex value to select the Bit rate parameter. The values are programmable only from dip switch.						
0x2111	9	Input Counter Value	Contains the value of 8 input counter available	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x08	RO
	Sub Index 1	Input 1 counter	Contains the value of the counter associated to the digital input 1	Unsigned 32	0x00000000	RW
	Sub Index 2	Input 2 counter	Contains the value of the counter associated to the digital input 2	Unsigned 32	0x00000000	RW
	Sub Index 3	Input 3 counter	Contains the value of the counter associated to the digital input 3	Unsigned 32	0x00000000	RW
	Sub Index 4	Input 4 counter	Contains the value of the counter associated to the digital input 4	Unsigned 32	0x00000000	RW
	Sub Index 5	Input 5 counter	Contains the value of the counter associated to the digital input 5	Unsigned 32	0x00000000	RW
	Sub Index 6	Input 6 counter	Contains the value of the counter associated to the digital input 6	Unsigned 32	0x00000000	RW
	Sub Index 7	Input 7 counter	Contains the value of the counter associated to the digital input 7	Unsigned 32	0x00000000	RW
	Sub Index 8	Input 8 counter	Contains the value of the counter associated to the digital input 8	Unsigned 32	0x00000000	RW

Index	No. Sub-index	Name	Description	Object type	Default value	Access
0x6000	2	Read Input 8 bit	Contains the measure of the Digital Input Channels	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Digital Inputs 1 to 8	Digital input channel measure	Unsigned 8	0x00	RO
0x6002	2	Polarity Input 8 bit	Contains the settings of the polarity of each single input bit	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Polarity bit 1 to 8	Digital input polarity settings 0=input not inverted; 1=input inverted	Unsigned 8	0x00	RW
0x6005	0	Global Interrupt Enable Digital	Allows to enable / disable the global interrupt behaviour 0 = global interrupt disabled 255 = global interrupt enabled	Unsigned 8	255	RW
0x6006	2	Interrupt Mask Any Change 8 bit	Defines which input port shall activate an interrupt on positive / negative edge detection	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Mask bit 1 to 8	Mask bit settings 0=interrupt disable; 1=interrupt enabled	Unsigned 8	0xFF	RW
0x6007	2	Interrupt Mask Low-to-High 8 bit	Defines which input port shall activate an interrupt on positive edge detection	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Mask bit 1 to 8	Mask bit settings 0=interrupt disable; 1=interrupt enabled	Unsigned 8	0x00	RW
0x6008	2	Interrupt Mask High-to-Low 8 bit	Defines which input port shall activate an interrupt on negative edge detection	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Mask bit 1 to 8	Mask bit settings 0=interrupt disable; 1=interrupt enabled	Unsigned 8	0x00	RW
0x6200	2	Write Output bits	Contains the programming for the digital outputs bits	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Digital Outputs 1 to 8	Digital output programming	Unsigned 8	0x00	WO
0x6202	2	Change Polarity Output bits	Contains the settings of the polarity of each single output bit	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Polarity outputs 1 to 8	Digital outputs polarity settings 0=output not inverted; 1=output inverted	Unsigned 8	0x00	RW
0x6206	2	Error mode outputs 8 bits	Defines the condition of each output bit when an internal error occurs	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Error mode outputs 1 to 8	Digital output condition 0=output value set as defined in object 6207 1=output value kept	Unsigned 8	0xFF	RW
0x6207	2	Error value outputs 8 bits	Defines the value of each output bit when an internal error occurs	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Error value outputs 1 to 8	Digital output value 0 = output value set to 0 1 = output value set to 1	Unsigned 8	0x00	RW
0x6208	2	Filter Mask outputs 8 bits	Defines which output port will be set to the received out value	Array	-----	----
	Sub Index 0	Max sub-index number	Contains the number of sub-index supported	Unsigned 8	0x01	RO
	Sub Index 1	Mask outputs 1 to 8	Digital output enabled	Unsigned 8	0xFF	RW

15 Installation / safety

Warning: Remove power from the OCS controller, CAN port, and any peripheral equipment connected to this local system before adding or replacing this or any module.

- All applicable codes and standards should be followed in the installation of this product.
- Shielded, twisted-pair wiring should be used for best performance.
- Shields may be terminated at the module terminal strip.
- In severe applications, shields should be tied directly to the ground block within the panel.
- Use the following wire type or equivalent: Belden 8441.

For detailed installation and a [handy checklist](#) that covers panel box layout requirements and minimum clearances, refer to the hardware manual of the controller you are using.

When found on the product, the following symbols specify:



Warning: Electrical Shock Hazard.



Warning: Consult user documentation.

16 Technical support

Technical Support at the following locations:

North America:

Tel: 317 916-4274

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