

## General Purpose I/O (GPIO) Option Card

### Description:

The general purpose I/O (GPIO) option module offers users the opportunity to expand the drives standard I/O capability, allowing more complex motor control solutions to be implemented.

The option can be fitted in either slot 1 or 2, and two options can be fitted at the same time to maximize the IO compliment. For example, two fitted IO options will give an additional 4 analogue inputs



2004-IO-00	GPIO Option
<b>Analogue inputs</b>	2x Analogue inputs ( $\pm 10V$ , 0-10V)
<b>Analogue output</b>	1x Analogue outputs ( $\pm 10V$ , 0-10V)
<b>Digital I/O</b>	Digital Input/Output 1 (24V configurable)
<b>Reference voltages</b>	+/- 10V References

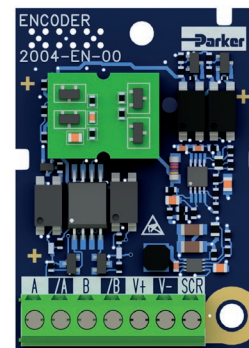
Terminal	Label		Description
	Slot 1	Slot 2	
<b>AI3</b>	AIN3	AIN5	Analogue input 3/5 ( $\pm 10V$ , 0-10V)
<b>AI4</b>	AIN4	AIN6	Analogue input 4/6 ( $\pm 10V$ , 0-10V)
<b>AO4</b>	AOUT4	AOUT5	Analogue output 4/5 ( $\pm 10V$ , 0-10V)
<b>DX11</b>	DIO11	DIO12	Digital I/O 11/12 (24V configurable)
<b>+10V</b>	+10V	+10V	+ 10V Reference voltage
<b>-10V</b>	-10V	-10V	- 10V Reference voltage
<b>0V</b>	0V	0V	0V Reference for analogue & digital I/O

## Encoder Feedback Card

### Description:

The HTTL pulse encoder feedback module allows an incremental encoder to be connected to the AC20, allowing users to take full advantage of closed-loop vector control.

The option can be fitted in either slot 1 or 2, and two identical options can be fitted at the same time, allowing for simple speed following applications.



2004-EN-00	Encoder Feedback Option
<b>Maximum input frequency</b>	250 kHz per channel
<b>Input format</b>	Quadrature
<b>Output supply voltage</b>	5V, 12V, 15V, 20V

Terminal	Label		Description
	Encoder 1	Encoder 2	
<b>A</b>	A	A	Channel A input
<b>/A</b>	/A	/A	Channel /A input
<b>B</b>	B	B	Channel B input
<b>/B</b>	/B	/B	Channel /B input
<b>V+</b>	V+	V+	Encoder supply +
<b>V-</b>	V-	V-	Encoder supply -
<b>SCR</b>	SCR	SCR	Cable screen