

Technical Specifications

Absolute Maximum Ratings

DC input voltage	−30 V to 30 V
DC input current	±10 mA
DC output current	+33 mA
Temperature Range	+5 °C to +45 °C (operational)
Humidity	< 80% (non-condensing)

DC Electrical Characteristics

Output voltage programmable range: 1.2 V to 3.3 V in 0.1 V steps

Output voltage tolerance: ±5% of set value, typically ±3%

Variable Input threshold:

$$V_{IL}(\text{Max}) = V_{\text{THRESH}} - 0.14 \text{ V}$$

$$V_{IH}(\text{Min}) = V_{\text{THRESH}} + 0.14 \text{ V}$$

External V_{REF} :

$$V_{IL}(\text{Max}) = \frac{V_{\text{REF}}}{2} - 0.14 \text{ V}$$

$$V_{IH}(\text{Min}) = \frac{V_{\text{REF}}}{2} + 0.14 \text{ V}$$

TCK Frequency

10 kHz to 166 MHz in steps of 0.05 MHz

Autoskew compensates for the delay introduced by the cable and the JTAG devices by up to 3 TCK periods.

Frequency Counter

	Min	Max
Frequency Input	1 Hz	200 MHz
Accuracy	±10 ppm	
Selectable measurement period:	1 ms, 10 ms, 100 ms, 1 s, 10 s	

Voltage Measurement

	Min	Max
Voltage Input	0	3.3 V



PC Interface

USB 2.0 High speed (480 Mbps) Type B connector

JTAG Connector

4 x Signal Integrity 10 pin out (0.1" pitch 20-way connector with signals on odd pins, ground on even pins)

Physical dimensions

Size: 163 mm x 111 mm x 45 mm

Visual Indication

Power light

4 x customisable status indication LEDs

Accessories

CAB-0014	20-way 220 mm twisted ribbon cable (0.1")
CAB-0021	20-way 1000 mm twisted ribbon cable (0.1")
CAB-0011	USB cable 1 m C-C locking
CAB-0013	USB cable 2 m C-C
FXK-0001	Metal mounting clip kit

