G0C-1034-1

Product video see

YouTube

MultiChoice USB Basic in streamlined rugged aluminium case, 16 channel 250kHz version with 16 bit resolution for analog acquisition and output, analog signal terminals with Weidmüller screw terminals, 4 channel analog output 10 kHz output voltage ±10V, digital ports 16 in four bit groups, can be set to inputs/outputs level TTL, detachable Weidmüller screw terminals.

Features:

- **A/D 16 bit 250kHz 16SE/DI**
- **D/A 16 bit 10kHz 4 channel**
- **TTL digital in/output 16 bit**
- **2 counter 32 Bit / rotaryencoder**
- **External trigger / clock & synchronization multiple devices.**

Supported application software

E.d.a.s.WinPlus™

DASYLab™ Data Acquisition System Laboratory

TM

NATIONAL INSTRUMENTS™ DIAdem™

NATIONAL INSTRUMENTS™ LabVIEW™

API für C/C++, Delphi, Phython unter Windows Linux, MacOS und Android und für DotNET(C#, F#, VB.NET, IronPhython, ...)

Analog Out

number of outputs	4
resolution	16 Bit
DA throughput	10kHz
output voltage ranges	±10V
output current	±5 mA
output impedance	0.2 Ohm
range error	< ±0.1 %, typ.
zero error	< ±0.1 %, typ
settling time up to 0.012 % FSR	5 µs, 20V step
steepness	10 V / µs
AD zero drift	±5 ppm / °C, typ.
field drift	±5 ppm / °C, typ.
monotonocity	guaranteed
terminals	Weidmüller screw terminals

Analog In

number of Inputs	16 single-ended/8 differential inputs
resolution	16 Bit
A/D throughput	250kHz
input voltage range	±10V; ±5V; ±2,5V; ±1,25V
system accuracy	0.009% = 1,8mV
ADC sample rate	4 µs
input impedance	1 G, 30 pF
maximum input voltage in	
operation/non operating	±35 V
BIAS current	±40 nA
non linearity	±3 LSB
digitalization error	±3 LSB
quantisation error	< ±1 LSB
range error	adjustable
quantisation error	adjustable
A/D-zero drift	±7 ppm / °C
monotonocity	±1,5 LSB
terminals	Weidmüller screw terminals

Digital Inputs/Outputs

number of inputs	16 (switchable in four bit groups)
logic family	LVCMOS
logic sense	2.0 V
logic low input voltage	0.4 V
logic high input current	0.5 µA
logic low input current	0.1 µA
logic high output voltage	3.1 V min.
logic low output voltage	0.1 V max.
logic high output current	-2,5 mA
logic low output current	-2,5 mA
termination	None
maximum input voltage	
in operation	+5 V
terminals	Weidmüller screw terminals
synchronous capture	of digital and counter inputs
	simulatnaneously to analog inputs

Goldammer GmbH, Schlosserstraße 6a, D-38440 Wolfsburg, Phone.: +49 (0) 53 61 / 29 95-0, Fax: +49 (0) 53 61 / 29 95-29
E-mail: info@goldammer.de Web: http://www.goldammer.de

G0C-1034-1

GOLDAMMER GmbH

Counter

logic family	properties see digital input
number of counters	2
resolution	32 Bit
counter resolution	10/50 MHz
counter modes	event counting, frequency measure-
	menth (frequency resolution 10Hz)
	pulse width, periodlength

rotary encoder counting

number of inputs	1 rotary encoder + 1 time stamp
resolution	1 * 32 Bit rotary encoder counter
resolution	1 * 32 Bit time stamp
resolution time stamp	100ns
mode time stamp	time stamp/flow
interpolation	1x, 2x, and 4 * programmable
zero (counter clear)	programmable
input frequency max.	20MHz

Trig. Trigger

logic family	properties see digital input/ output
input	1 trigger input
output	1 trigger output
	master/slave programmable

Sync Synchronization

logic family	properties see digital input/ output
input	1 synchronization input
output	1 synchronization output
	master/slave programmable
	all devices from the series GEC, GES,
	G0C, GOS, GES and G0A can be
	synchronized with each other.

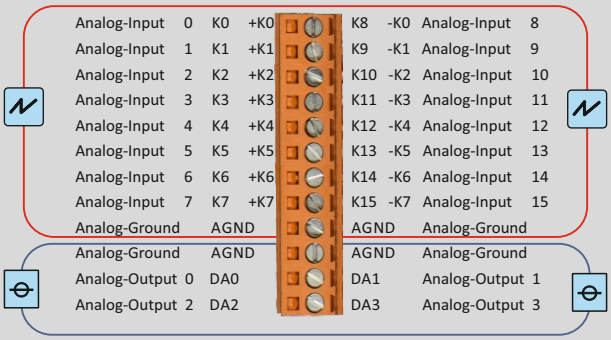
Interface

USB 2.0 (Deviceport)	USB 2.0 highspeed, 1,1 compatibel

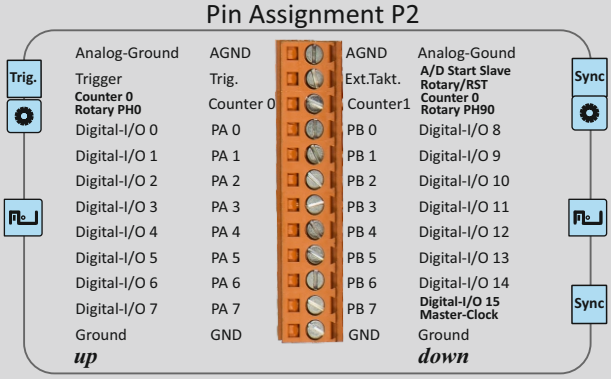
Other

optocoupled	-
case	aluminium case
dimensions	180 x 118 x 49 mm
roHS konform	yes
external supply	220V AC/+5V DC included.
current consumption	+5V, max. 470mA
wight	810gr.
price	1.299,0 €
customs tariff number	84716070

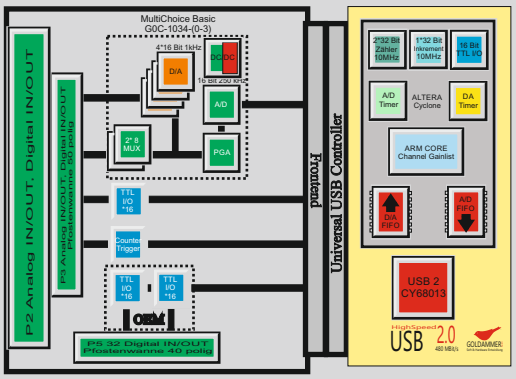
Pin Assignment P2



Pin Assignment P2



TTL level



Optional hard and software extensions

G0C-30C0-0 Clip for wall mounting of aluminium cases

G0C-30C0-1 Clip for wall mounting of aluminium cases

G0A-30E0-4 Automotive extension. Power supply: 9-60V DC / 10W (for G0A-30D0-x)

Goldammer GmbH, Schlosserstraße 6a, D-38440 Wolfsburg, Phone.: +49 (0) 53 61 / 29 95-0, Fax: +49 (0) 53 61 / 29 95-29
E-mail: info@goldammer.de Web: http://www.goldammer.de