

The GOLD SOLO Twitter

Ultra Hi Current, Ultra Efficient
Ultra Small

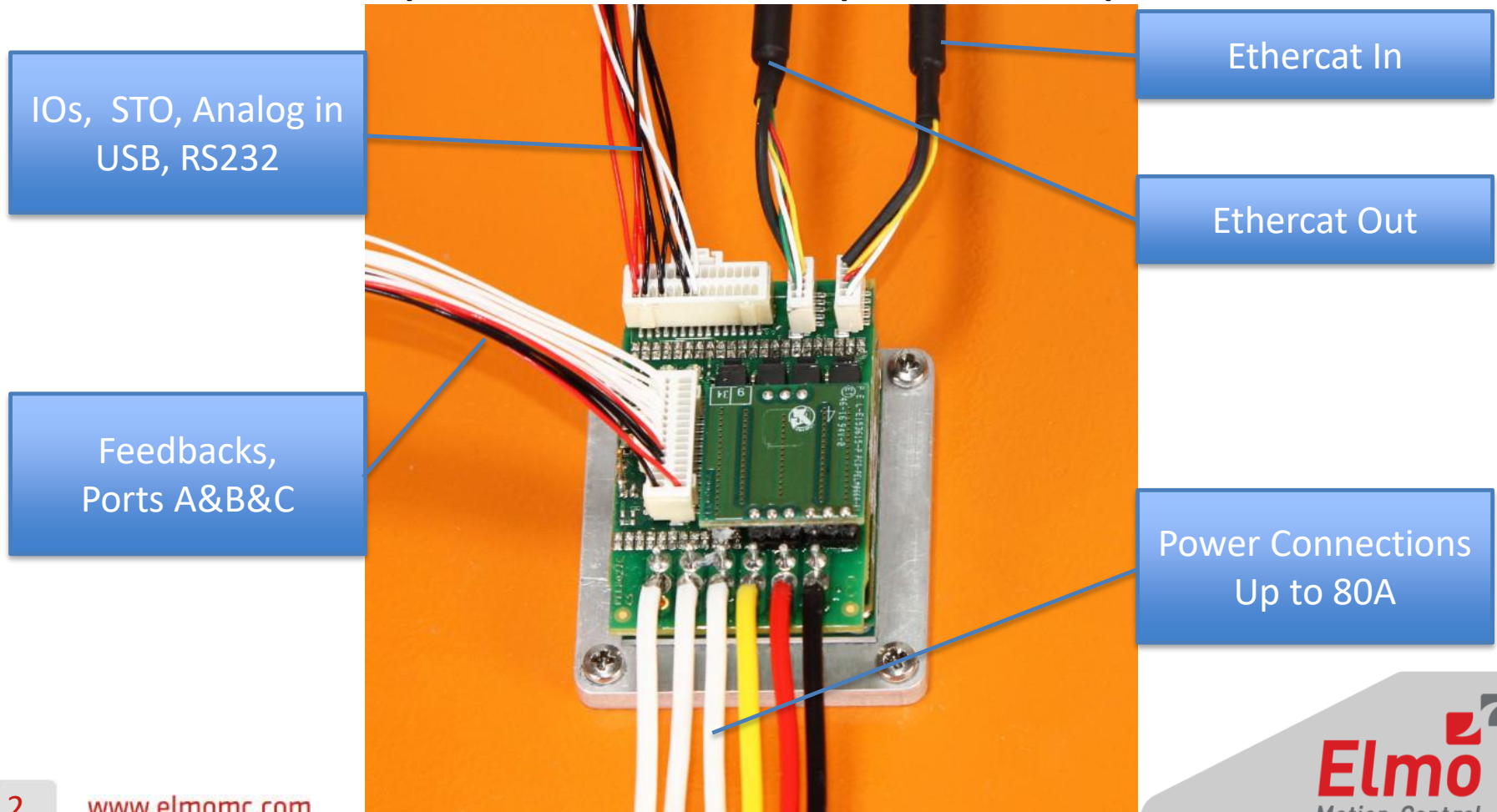


GOLD Twitter Ready to Use

SOLO Ready To Use

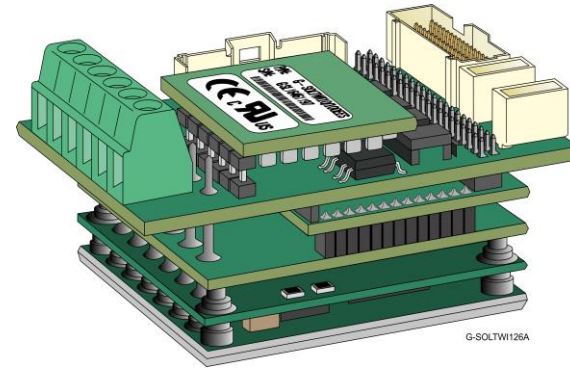
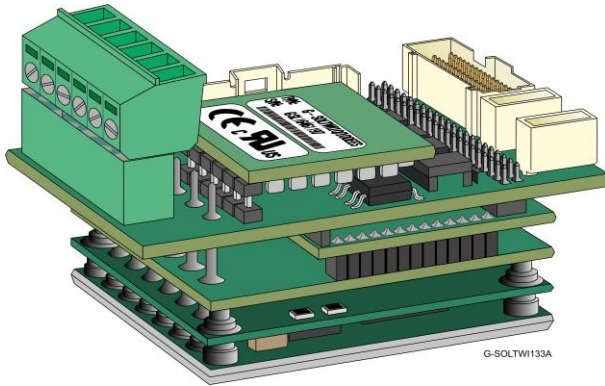
Smart & Simple

The smart miniature interface that keeps the Twitter compactness and keeps the full performance.



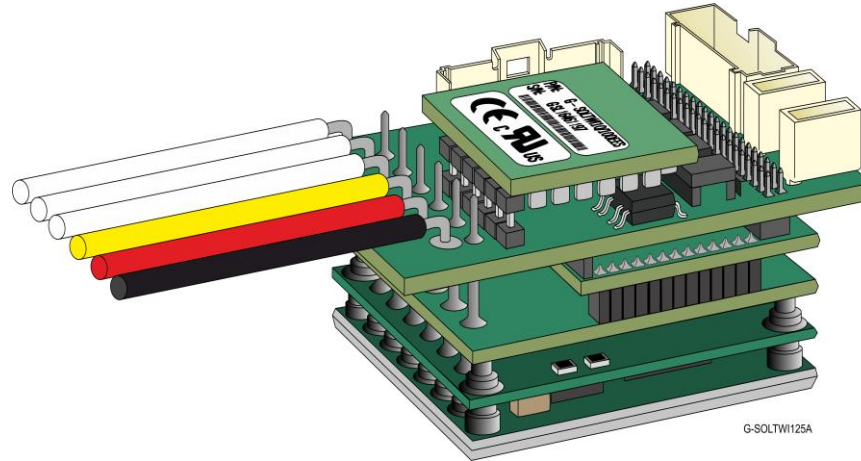
SOLO TWitter Ready To Use

The Gold Solo Twitter which is provided in 3 optional forms



Screw type Power Connector for $\leq 10A$ Output Current

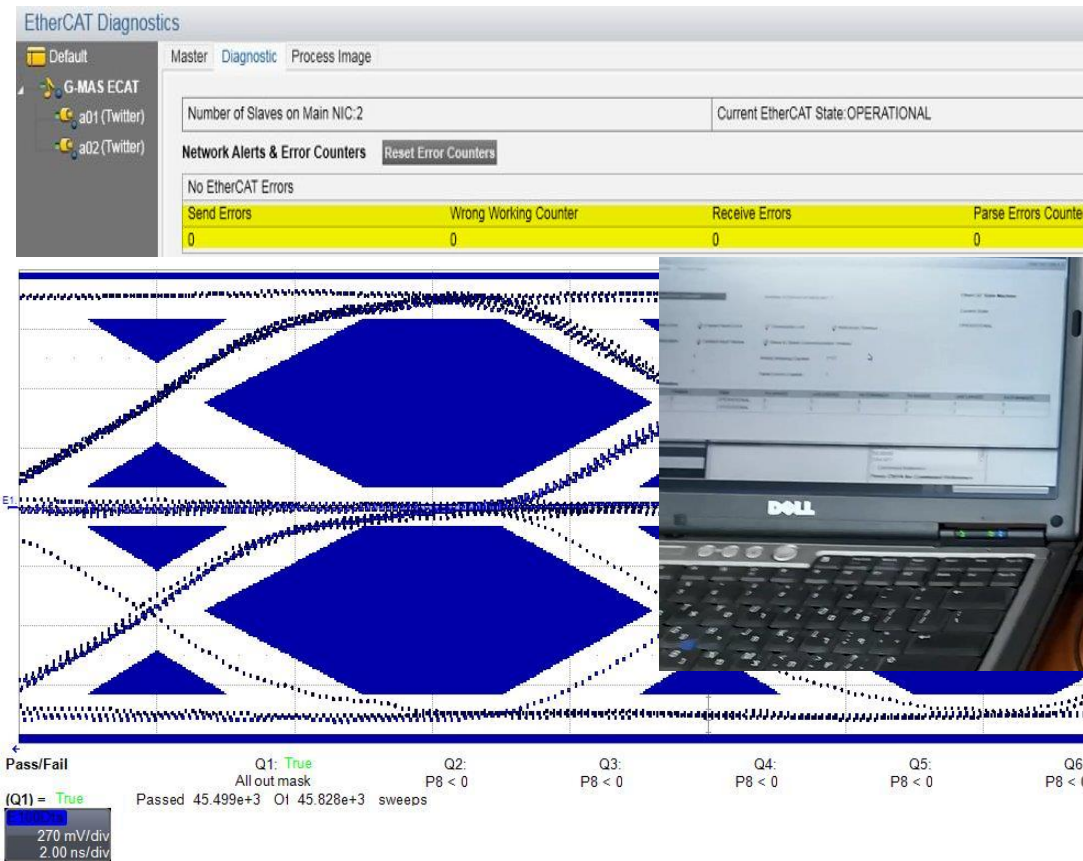
Wired Power Connection for $>10A$ Output Current (Up to 80A)



Ethercat Cabling?

The miniature ETHERCAT connectors and the cables were intensively tested also with special dedicated equipment.

The results were and are very good. This miniature ETHERCAT connection was proved to be very reliable with ZERO errors



4GHz Scope with
dedicated Tool to test
Ethernet Com.

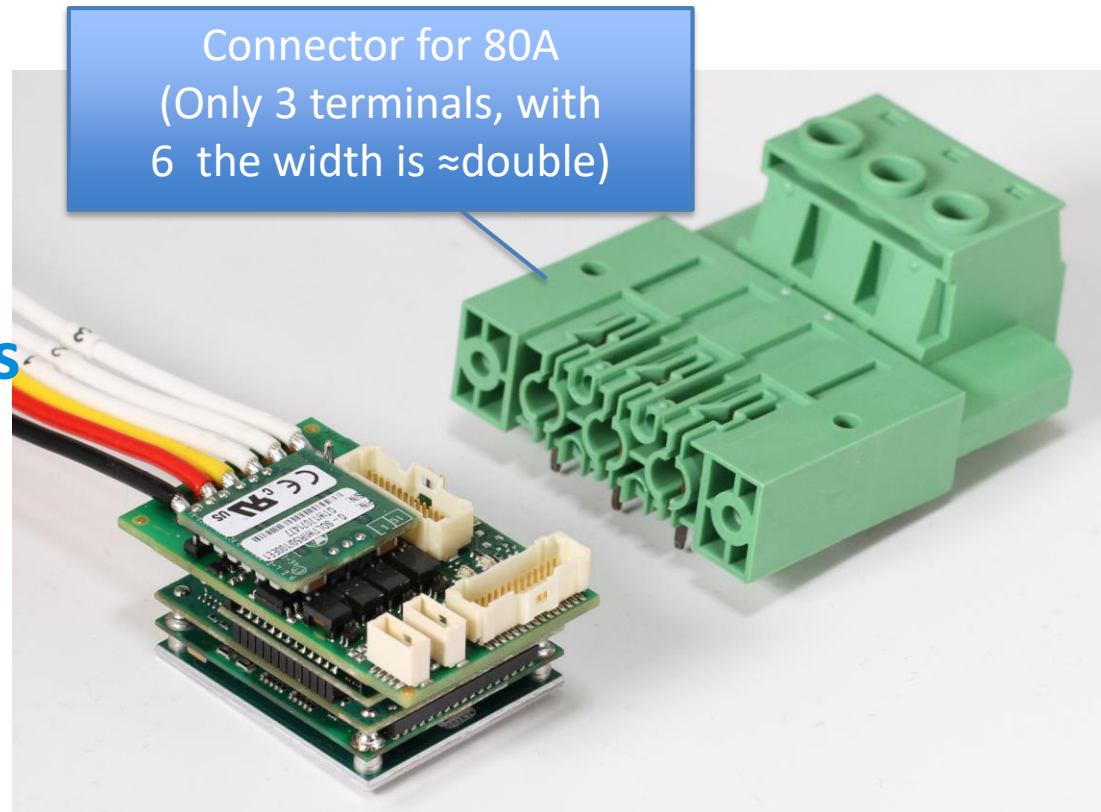
Power Connections

Why “Wired Power Connection”?

Why not a traditional power connector?

The Philosophy of the GTWI is **NANO**, using the “traditional” connectors will “Kill” the compactness of the whole implementation.

Creativity in the power connections is essential

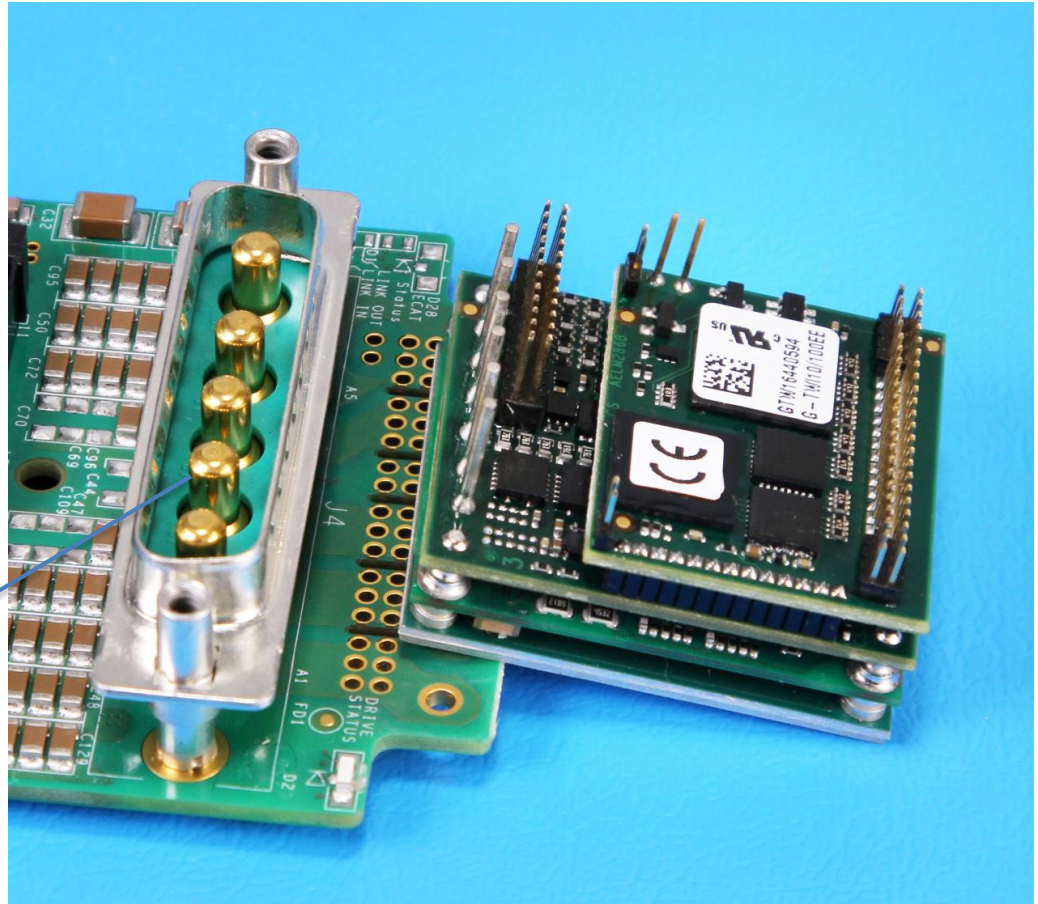


Power Connections

Why “Wired Power Connection”?

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Connector for 50A
(Only 5 terminals)

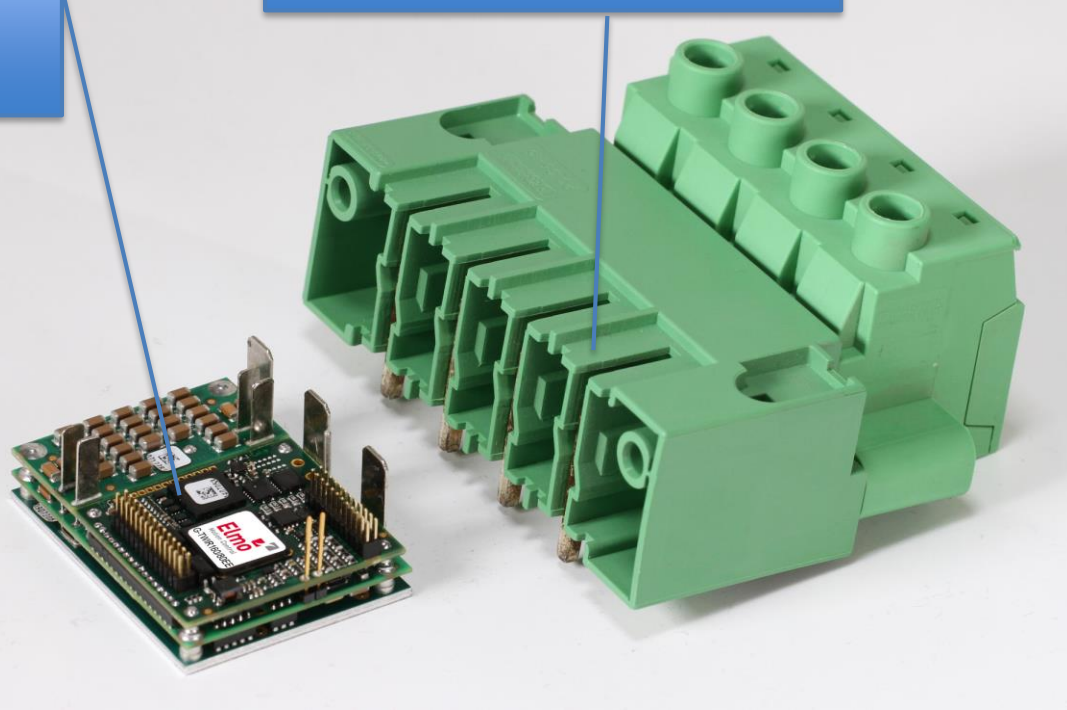
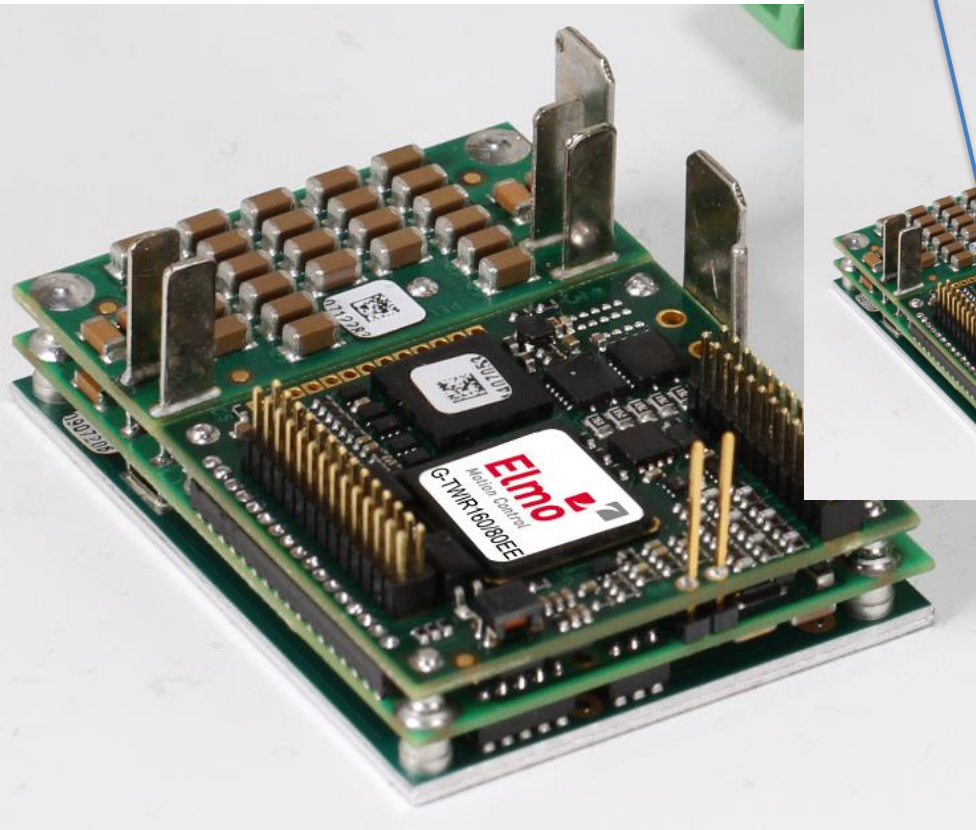


Power Connections

With the “Coming Soon” it is even “funnier”

160A (Amplitude)
Super NANO Servo Drive
NANO² ?

Connector for 120A RMS
170A Amplitude



SOLO TWitter Ready To Use

Power Wiring?

- ❑ The Wired Power Connection for higher than 10A and up to 55A RMS ($\approx 80A$) consists of six 14-AWG high quality Teflon wires rated to operate up to 200°C.

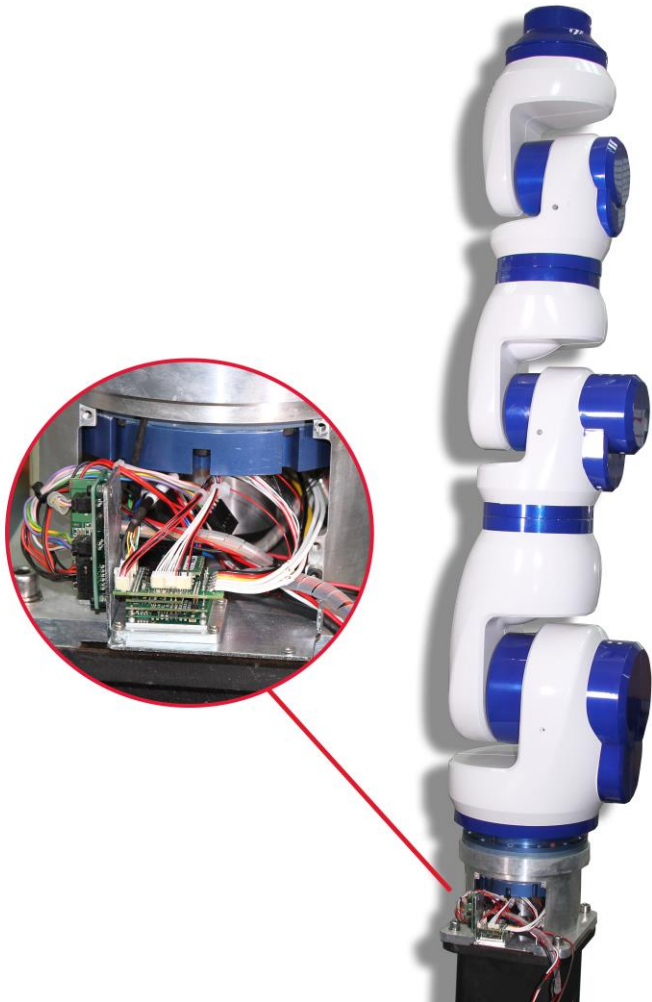
The Gold Solo Twitter wire connection conforms with UL61800-5-1 for operation up to 105°C (on the wires).

This was verified Under extensive load conditions, at a current rate of 55A RMS, the wires temperature gradient is ≈ 50 °C above ambient.

Mount It Anywhere

The Ideal Servo solution for any robot.

Actually Mountable “ Anywhere, Any Space, Any Environment..”

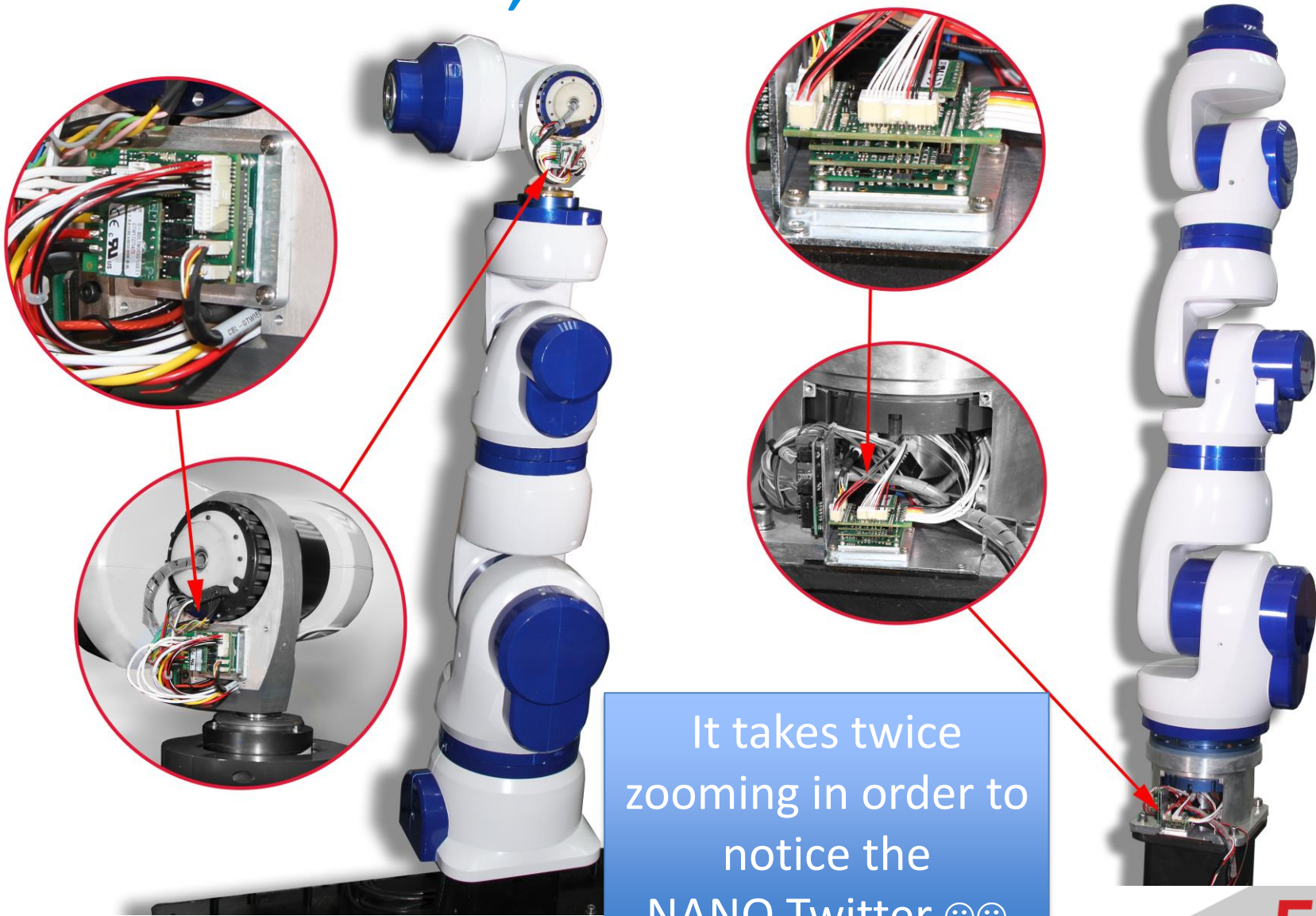


- Require servo drives that are most power, yet must be very, very small .
- Best in Class servo control
- Very rugged to withstand the very rapid accelerations and the unexpected mechanical shocks
- Utmost efficiency as heat dissipation means inside are very limited

Must be very light to minimize (actually eliminate) disturbances on the mechanical plant

The GOLD Twitter covers all 7 axis power/ torque requirements, from 10A and up to 50A/100V drives

Elmo Inside, All 7 Axis on the Elbows



It takes twice zooming in order to notice the NANO Twitter 😊😊

High Level Integration

Simple, Straight Forward, Ultra High Density

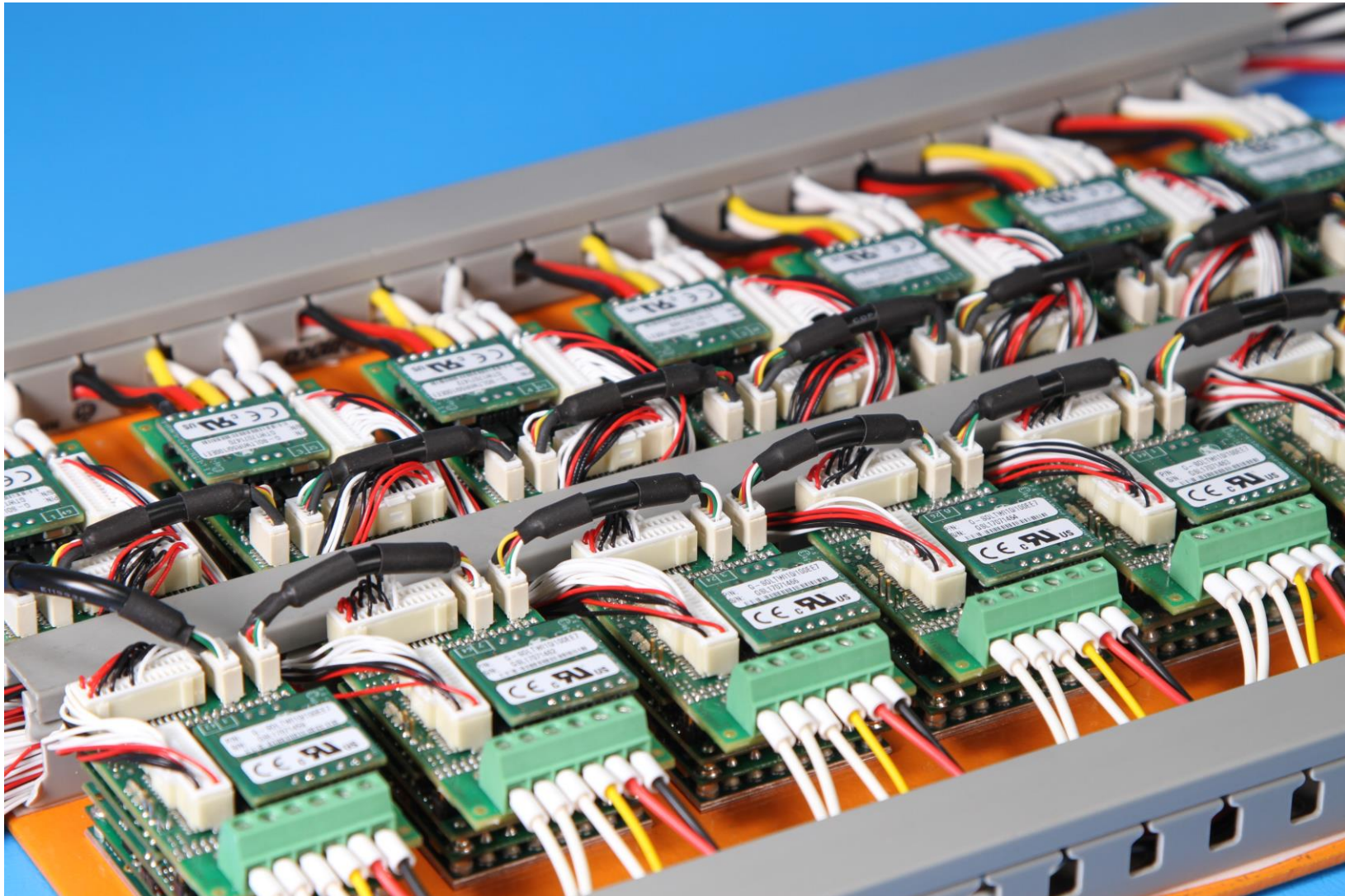
Feedbacks,
Ports A&B&C

Ethercat

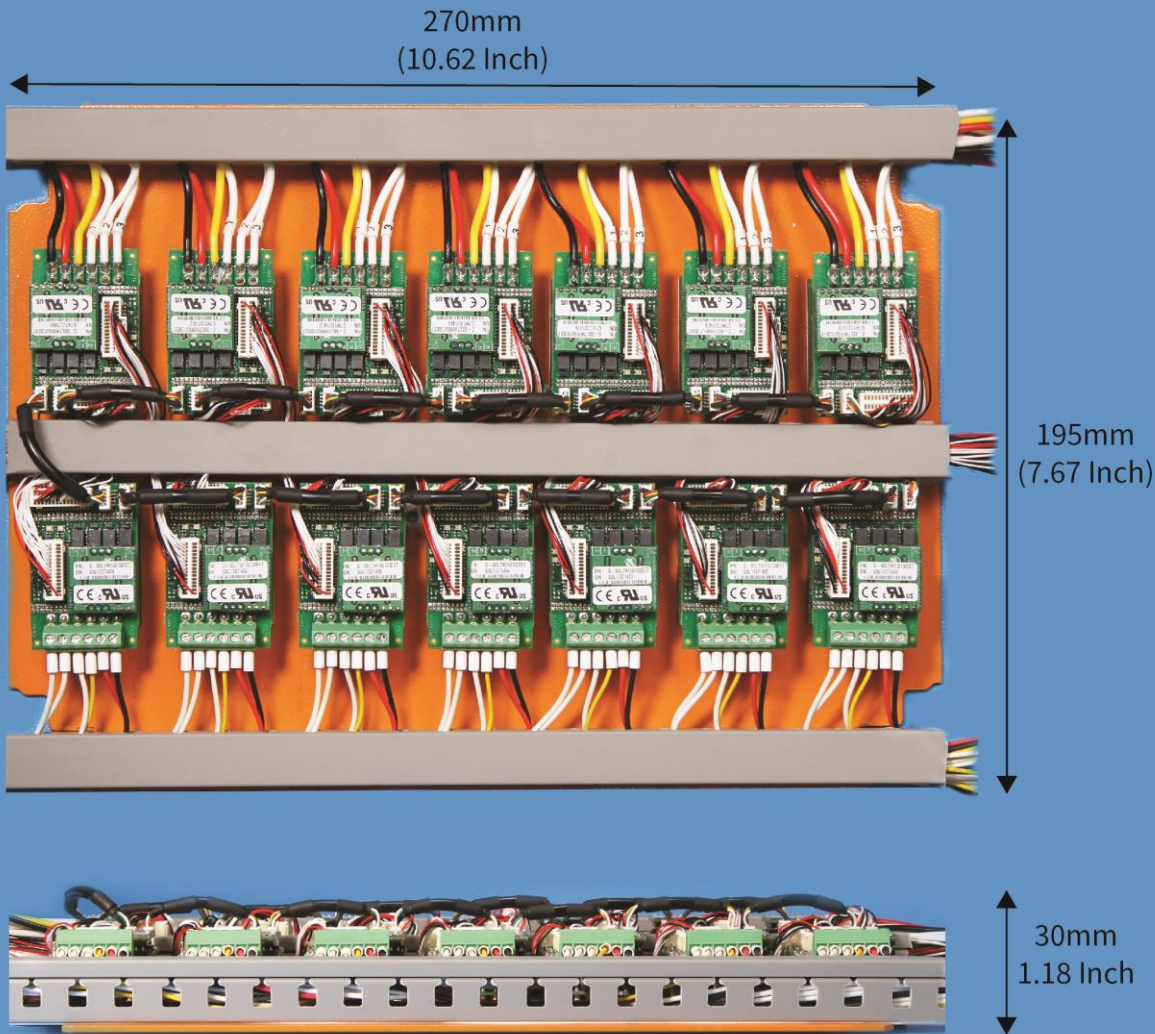
- Saves critical the resources of engineering and the costs of designing a dedicated custom PCB
- Shortens significantly the time to implement properly the NANO servo drives (3-6 months)
- Eliminates the risks of designing and manufacturing risks of a high frequency, high current, high voltage PCBs
- Most compact design allow easy multi- axis integrations

IOs, STO, Analog in
USB, RS232

“Multi, Multi” axis integration

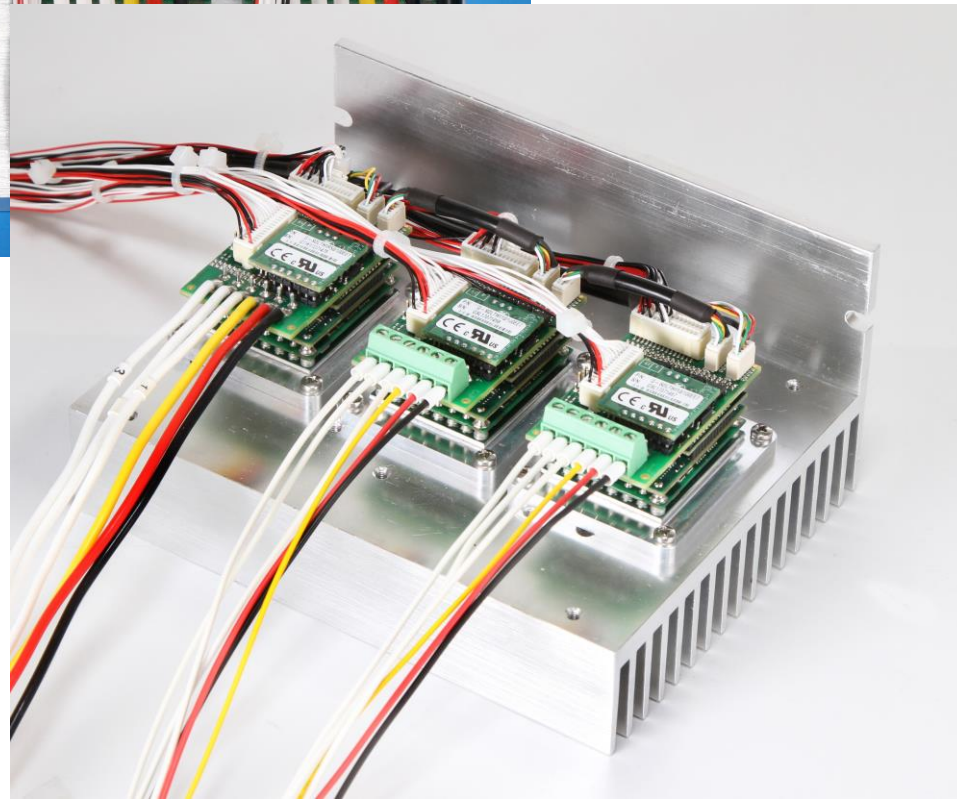
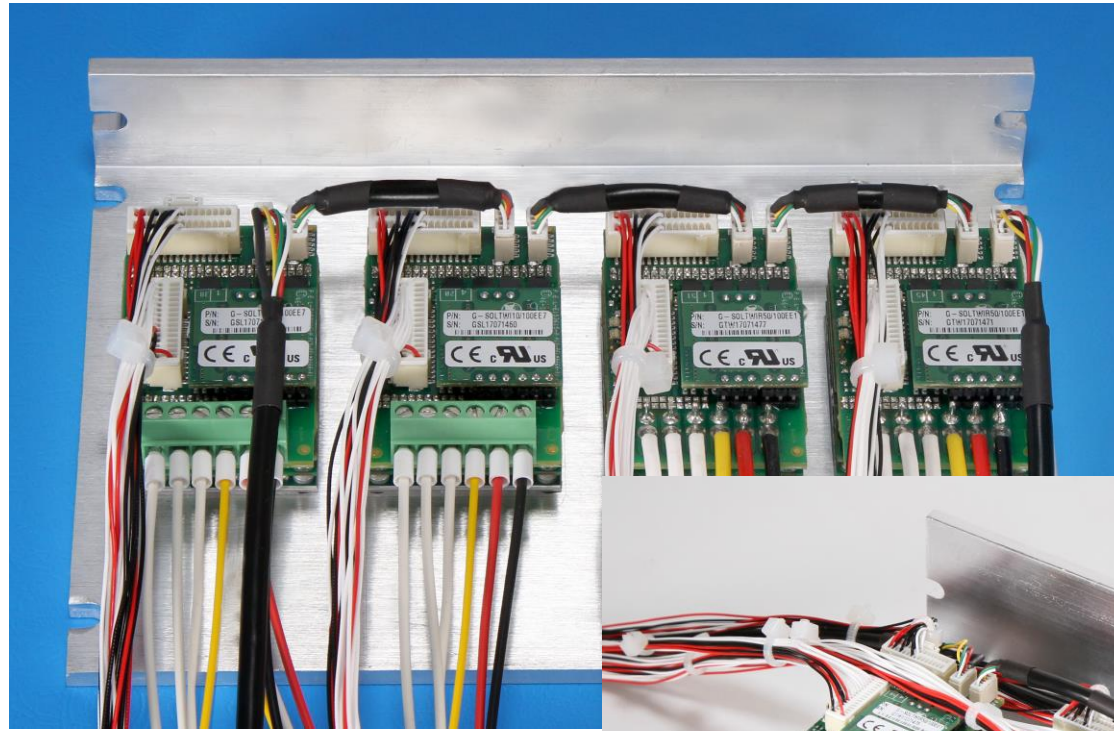


Highest Density Multi-Axis Integration



Example of 14 X G-TWI
servo axis in a Simple,
Ultra small “package”
Of only
270mmX195mmX30mm

High Level Simple Integration



Standards Compliance



Product Service

CERTIFICATE

No. Z10 13 08 84596 001

Holder of Certificate: Elmo Motion Control Ltd.
60 Amal St. P. O. Box 3078
49516 Petach-Tikva
ISRAEL

Factory(ies): 84596

Certification Mark:



Product: Safety Related Programmable Electronic System

Model(s): Drive System GOLD LINE

Parameters: Safety Function: STO (EN 61800-5-2)
PL e, CAT 3 (EN ISO 13849)
SIL 3 (EN 61508)

Further approvals can be found in the report below.

The report below and the user documentation in the currently valid revision are mandatory part of this certificate. The product complies with the following listed safety requirements only if the specifications documented in the currently valid revision of this report are met.

Tested according to: EN 61508-1:2010 (SIL 3)
EN 61508-2:2010 (SIL 3)
EN 61508-3:2010 (SIL 3)
EN 61800-5-2:2007
EN ISO 13849-1:2008 (Cat 3, PL e)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: EP85169C

Peter Weiss

Date, 2013-08-12 (Peter Weiss)



Page 1 of 1

TÜV SÜD Product Service GmbH · Zertifizierstelle · Ridlerstraße 65 · 80339 München · Germany

TUV®

Gold WHISTLE		
Model Name	Model Part Number	Version
Gold Whistle	G-WHI	V03
Gold DC Whistle	G-DCWHI	V03
Gold Solo Whistle	G-SOLWHI	V03
Gold Hornet	G-HOR	V03
Gold Solo Hornet	G-SOLHOR	V03
Gold DC Hornet	G-DCHOR	V03
Gold Duo	G-DUO	V03
Gold Duo AMBA	G-DUO-AMBA	V03
Gold Uno AMBA	G-UNO-AMBA	V03
Gold Twitter		
Model Name	Model Part Number	Version
Gold Twitter	G-TWI	V03
Gold Bee	G-BEE	V03
Gold Solo Twitter	G-SOLTWI	V03
Gold Clarinet		

Being STO Certified the SOLO TWITTER compliances with all the relevant STDs, such as SAFETY Environmental EMC.....



ZERTIFIKAT ♦ CERTIFICATE ♦ CERTIFICADO ♦ CERTIFICAT ♦ СЕРТИФИКАТ ♦ 證書証書



Inspiring Motion
Since 1988