



HE SAFETY GLOBAL CONTROLLERS *RANGE*

HE154 | HE84 | HE48



ISOBUS
11783
Compliant



HE SAFETY GLOBAL CONTROLLERS

HE154 - HE84 - HE48



APPLICATIONS



Lattice crane



Garbage truck



Road sweepers



Foundation machines



Earth moving machines



Tractors



Fire fighting vehicles

HE SAFETY GLOBAL CONTROLLERS

HE154 - HE84 - HE48

The **HE154 - HE84 - HE48** uses the Infineon AURIX microcontroller that combines the computing power of its 3 latest generation cores together with the Lock-step technology for the execution of applications where the "Functional Safety" is required.

They have as a basis the industrial, agricultural, road and vehicles, construction machinery standards.

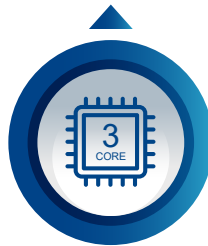
They can be used in all applications where has a Safety controller required:

- with top computing power;
- with high power for hydraulic and electrical movement;
- with CAN Bus and Ethernet / BroadR-Reach advanced connectivity.

**HIGH ELECTRICAL
EXECUTION POWER**



COMPUTING POWER



FUNCTIONAL SAFETY



K E Y

V A L U E S



CYBERSECURITY



**ADVANCED CAN BUS
CONNECTIVITY**



**ADVANCED ETHERNET /
BROADR-REACH
CONNECTIVITY**

HE SAFETY GLOBAL CONTROLLERS

HE154 - HE84 - HE48



Scan the QR
for more
informations



	HE154	HE84	HE48
Microprocessor	Infineon Aurix TC299, 3 Core / 1 lockstep	Infineon Aurix TC299, 3 Core / 1 lockstep	Infineon Aurix TC299, 3 Core / 1 lockstep
Frequency	300MHZ	300MHZ	300MHZ
SRAM memory	2776 kB	2776 kB	2776 kB
FRAM memory	256 Kbit	256 Kbit	256 Kbit
Flash memory	64 MB	64 MB	64 MB
EEPROM memory	128 KB	128 KB	128 KB
CAN-BUS line	5x CAN-Bus, 2.0B high speed, ISO 11898-2	3x CAN-Bus, 2.0B high speed, ISO 11898-2	2x CAN-Bus, 2.0B high speed, ISO 11898-2
RS-232	1x RS232 Line FULL version	1x RS232 Line FULL version	1x RS232 Line FULL version
LAN interface	1x BroadR-Reach line FULL version	1x BroadR-Reach line FULL version	1x BroadR-Reach line FULL version
Sensor	2x Redundant Accelerometer	2x Redundant Accelerometer	2x Redundant Accelerometer
Clock / Battery	1x Real Time Clock/calendar with battery buffered	1x Real Time Clock/calendar with battery backup	1x Real Time Clock/calendar with battery buffered
Main power supply	8-32 VDC, I max 2A, I standby<1mA	8-32 VDC, I max 2A, I standby<3mA	8-32 VDC, I max 2A, I standby<3mA
Protection	IP66	IP66	IP66
USB	FULL version	FULL version	✗
Operative temperature	from -40°C to +85°C (from -40°F to +185°F)	from -40°C to +85°C (from -40°F to +185°F)	from -40°C to +85°C (from -40°F to +185°F)
Power supply voltage	+8V ÷ +32V FULL version	+8V ÷ +32V FULL version	+8V ÷ +32V FULL version
I/O List	FULL version	FULL version	FULL version
	BASE version	BASE version	BASE version
	64 INPUTS 16x Digital Frequency 16x Digital/Analog Logic 16x Analog 0-5V/0-20mA 16x Analog 0-5V/0-30V	28 INPUTS 10 x Analog 4 x Analog 10 x Logic FREQ 4 x Logic/Analog Read	16 INPUTS 8 x Analog 8 x Logic FREQ
I/O List	BASE version	BASE version	BASE version
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	56 OUTPUTS 20x 3A High Side with current Loop 3A High Side 20x 5A High Side 8x 3A Low Side with current Loop 3A Low Side 8x 5A Low Side	32 OUTPUTS 16 x 3A High Side with current Loop 8 x 5A High Side 4 x 3A Low Side 4 x 5A Low Side	16 OUTPUTS 8 x 3A High Side with current Loop 4 x 5A High Side 2 x 3A Low Side 2 x 5A Low Side
Dimensions	238 x 223 x 50mm	183.7 x 184.8 x 47.7 mm	183.7 x 184.8 x 47.7 mm
Accelerometer	FULL version	FULL version	FULL version
Certifications	ECE R10 ISO 14982 EN 61000 for Industrial EN 13766 for Earth-moving ISO 11783 (ISOBUS)	ECE R10 ISO 14982 EN 61000 for Industrial EN 13766 for Earth-moving ISO 11783 (ISOBUS)	ECE R10 ISO 14982 EN 61000 for Industrial EN 13766 for Earth-moving ISO 11783 (ISOBUS)
EMC Immunity	100V / m	100V / m	100V / m
Safety	IEC 61508 SIL2 ISO EN 13849 PL d ISO 25119 AgPL d	IEC 61508 SIL2 ISO EN 13849 PL d ISO 25119 AgPL d	IEC 61508 SIL2 ISO EN 13849 PL d ISO 25119 AgPL d

HE SAFETY GLOBAL CONTROLLERS

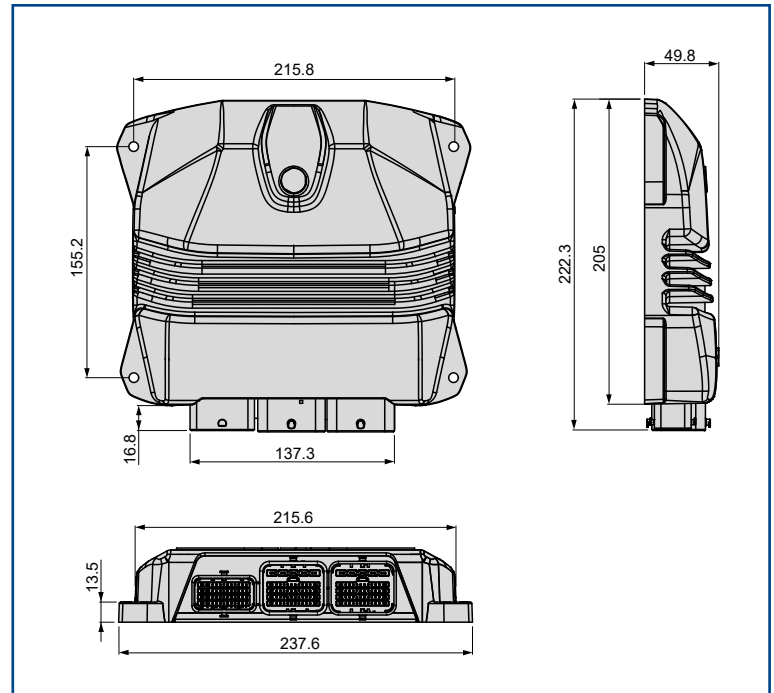
HE154 - HE84 - HE48

HE154 *High sized device*

DESCRIPTION	P/N
HE154 FULL 32 bit Controller	1110375
HE154 BASE 32 bit Controller	1110376
HE154 ISOBUS	1110379



DIMENSIONS



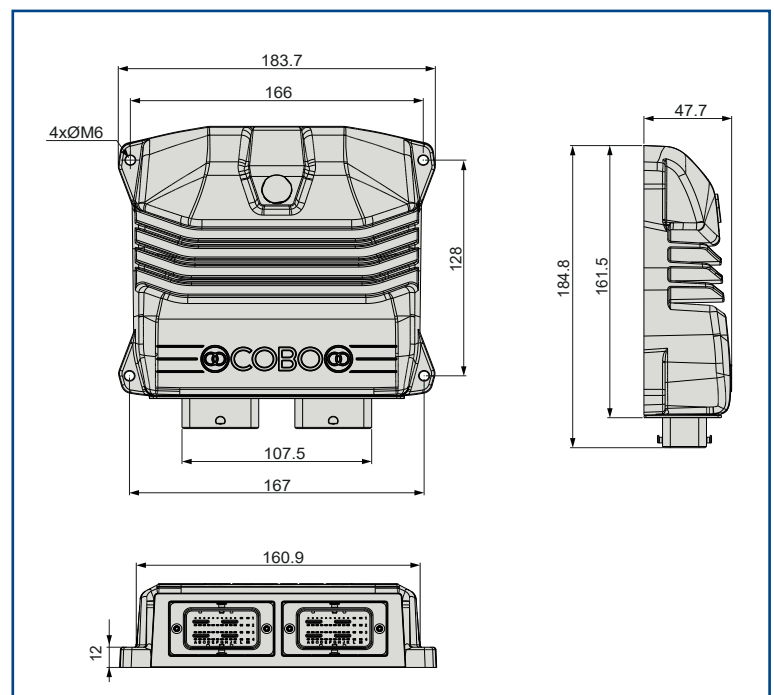
HE84 *Mid sized device*

HE48 *Small sized device*

DESCRIPTION	P/N
HE84 FULL 32 bit Controller	1103486
HE84 BASE 32 bit Controller	1103487
HE48 FULL 32 bit Controller	1104432
HE48 BASE 32 bit Controller	1104483



DIMENSIONS



GERMANY

COBO DEUTSCHLAND GmbH
 Zum Schürmannsgraben, 12E
 D-47441 - Moers
 Germany
 Phone: +49 (0) 2841 88238 0
 Fax: +49 (0) 2841 88238 23
 E-mail: info@cobogroup.net
 Web Site: www.cobo-deutschland.com

FRANCE

COBO FRANCE Sarl
 Allée de l'Europe, 2 - Zone Coriolis
 71210 - Ecuisses
 France
 Phone: +33 (0) 3 857 30560
 Fax: +33 (0) 3 857 85606
 E-mail: info@cobogroup.net
 Web Site: www.cobofrance.com

NORTH AMERICA

COBO USA Ltd
 West Division Street, 304
 52655 - West Burlington
 Iowa - Usa
 Phone: +1 319 754 5585
 Fax: +1 319 754 8724
 E-mail: info@cobogroup.net
 Web Site: www.cobointernational.com

LATIN AMERICA

COBO COMPONENTES AGR. E IND. Ltda
 Rua Dona Francisca, 8300 - Bloco 2-M
 89219-600 Zona Industrial - Joinville
 Santa Catarina - Brasil
 Phone: +55 47 3305 0095
 E-mail: info@cobogroup.net
 Web Site: www.cobogroup.net

OCEANIA

COBO OCEANIA Ltd
 Maiella Street, 4/12
 4207 Stapylton - Brisbane
 Queensland - Australia
 Phone: +61 (0) 7 3807 4866
 Fax: +61 (0) 7 3807 6780
 E-mail: info@cobogroup.net
 Web Site: www.cobo.com.au

SOUTH-EAST ASIA

COBO ASIA Ltd
 Wai Yip Street, 133
 11/F, 12/F and Roof Floor - Kwun Tong
 Hong Kong
 Phone: +852 3511 6708 (6709)
 E-mail: info@cobogroup.net
 Web Site: www.cobogroup.net

CHINA

COBO GUANGZHOU Ltd
 101/102 Building 7, Shi Dai Fang Zhou
 30 Hua Zhou Road, Haizhu District
 510220 - Guangzhou
 People's Republic of China
 Phone: +86 20 8922 5611
 Fax: +86 20 8922 5635
 E-mail: info@cobogroup.net
 Web Site: www.cobogroup.net

INDIA

COBO INDIA Branch Office
 Mathura Road, 13/6 - 4th floor, 403
 121003 NH-2 - Faridabad
 Haryana - India
 Phone: +91 129 4871206
 Email: info@cobogroup.net
 Web Site: www.cobogroup.net

**HEADQUARTERS****C.O.B.O. SpA**

Via Tito Speri, 10
 25024 Leno (Brescia) ITALY
Phone +39 030 90451
Fax +39 030 9045330



info@cobogroup.net | www.cobogroup.net