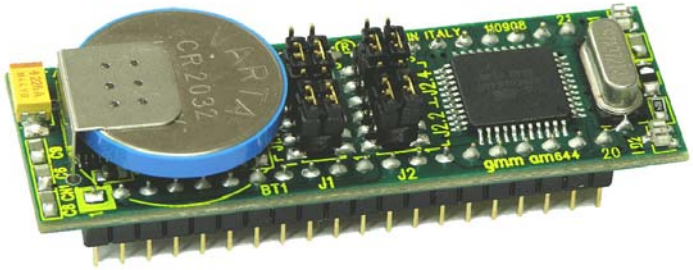
# GAB H844

**grifo® Analog BLOCK Housing, 8 analog in, 4 opto in, 4 Relays out**

# GMM AM1284

**grifo® Mini Module AT mega 1284P**

## TECHNICAL MANUAL

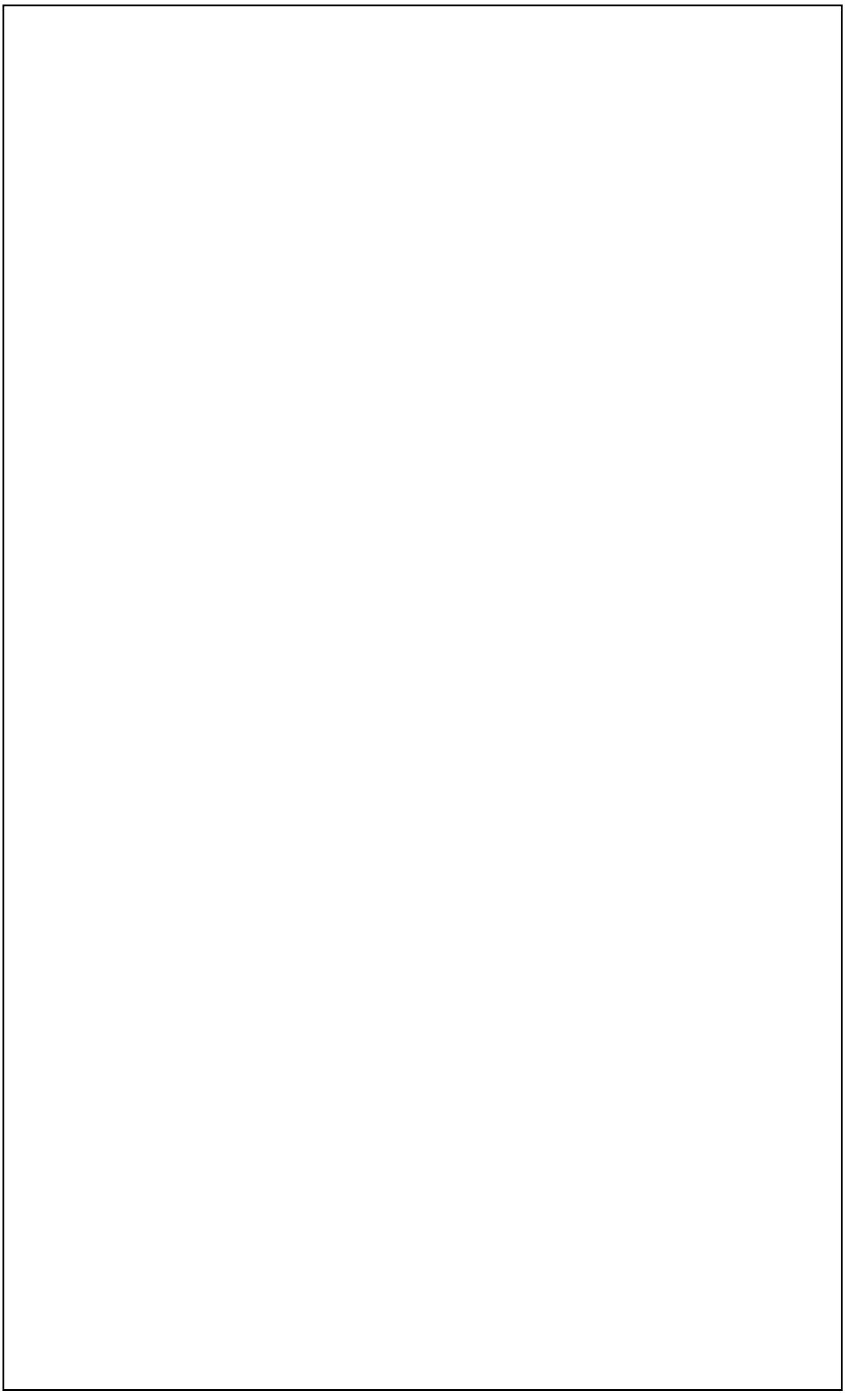


grifo®
ITALIAN TECHNOLOGY

Via dell' Artigiano, 8/6
40016 San Giorgio di Piano
(Bologna) ITALY
E-mail: grifo@grifo.it
http://www.grifo.it http://www.grifo.com
Tel. +39 051 892.052 (a.r.) FAX: +39 051 893.661



**GAB H844+GMM AM1284** Rel. 5.00 *Edition 21 July 2011*



# GAB H844

**grifo® Analog BLOCK Housing, 8 analog in, 4 opto in, 4 Relays out**

# GMM AM1284

**grifo® Mini Module AT mega 1284P**

## TECHNICAL MANUAL

Couple between interface board of **Analog Block GAB H844** series and **Mini Modules** with **AVR** core with **40** pins **GMM AMM1284**, able to manage application that involve bot **Analog** and **Digital** signals.


grifo®
ITALIAN TECHNOLOGY

Via dell' Artigiano, 8/6
40016 San Giorgio di Piano
(Bologna) ITALY
E-mail: grifo@grifo.it
http://www.grifo.it http://www.grifo.com
Tel. +39 051 892.052 (a.r.) FAX: +39 051 893.661



**GAB H844+GMM AM1284** Rel. 5.00 *Edition 21 July 2011*

## DOCUMENTATION COPYRIGHT BY grifo®, ALL RIGHTS RESERVED



## IMPORTANT

Although all the information contained herein have been carefully verified, grifo® assumes no responsability for errors that might appear in this document, or for damage to things or persons resulting from technical errors, omission and improper use of this manual and of the related software and hardware.
grifo® reserves the right to change the contents and form of this document, as well as the features and specification of its products at any time, without prior notice, to obtain always the best product.
For specific informations on the components mounted on the card, please refer to the Data Book of the builder or second sources.

## SYMBOLS DESCRIPTION

In the manual could appear the following symbols:

Attention: Generic danger

Attention: High voltage

Attention: ESD sensitive device

## Trade Marks

abaco, **GPC®**, grifo® : are trade marks of grifo®.
Other Product and Company names listed, are trade marks of their respective companies.

# GENERAL INDEX

# FIGURES INDEX

## COUPLE RESOURCES

The **GAB H844** + **GMM AM1284** couple has the following resources:

| | |
|---|---|
| Max. value voltage of A/D converter (Vmv): | **2,5 V** or **5,0 V** |
| Conditioned analog inputs (0÷20mA, 4÷20 mA, 0÷Vmv, 0÷4*Vmv): | **8** |
| Direct analog inputs (0÷Vmv): | **4** |
| Relays output: | **4** |
| Otpocoupled digital inputs: | **4** |
| Buffered TTL digitali inputs: | **4** |
| TTL multifuncion signals: | **6** |
| Asynchronous serial line RS 232: | **YES** |
| Asynchronous serial line TTL:. | **YES** |
| Asynchronous serial line RS 422: | **YES** |
| Asynchronous serial line RS 485: | **YES** |
| Asynchronous serial line Current Loop: | **YES** |
| Synchronous serial line I2C BUS: | **YES**, hardware |
| CAN interface: | **NO** |
| USB interface: | **NO** |
| Real Time Clock: | **YES** |

It is importatn to note that the previous list shows the maximum available resourced and some of these ones are not usable in the same time, as described in following figures.

## COUPLE CONNECTIONS

In the following tables are reported all connections of all available signals for user of **GAB H844** respect to **GMM AM1284** Mini Module. With these connections the user can manage all available resources both in hardware and in software.
If it needed a documentation more detailed, (connection diagram, signal location on connectors, power supply, jumpers configuration ,software management, etc.) please, see technical manuals of the two modules contained in the couple.

In the tables are present some abbreviation and reference:

N.C. = Not Connected
N.M. = Not Mounted
*1 = to configurate according to the performed connection.

**FIGURE 1: CONNECTION TABLE (1 OF 5)**

FIGURE 2: CONNECTION TABLE (2 OF 5)

**FIGURE 3: CONNECTION TABLE (3 OF 5)**

**FIGURE 4: CONNECTION TABLE (4 OF 5)**

FIGURE 5: CONNECTION TABLE (5 OF 5)