

# conga-SBM<sup>2</sup> – Battery Management for XTX™

## SMART Battery Manager Module

conga-SBM<sup>2</sup> is a complete **battery manager sub-system** in the form of a plug-in module.

---

Size 68 mm x 95 mm x 12.5 mm

---

Support 2S1P up to 4S3P, parallel or sequential battery operation

---

S3 support (Suspend to RAM)

---

LEDs provide a direct view of charging and battery capacity status

---

Input voltage of 19V DC, max. 4.5A with input power delimitation

---

Output 5V, 7A and 12V, 2A

---

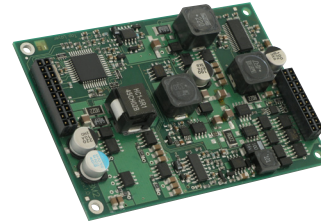
Battery charging max. 17V, max. 3A

---

Power Modes

---

S1: Sleep Mode, S3: Suspend to RAM, S5: Soft Off, G3: Mechanical Off



## conga-SBM<sup>2</sup>-Kit

This **battery manager kit** can be operated in conjunction with the congatec XTX™ starter kit. When used together they provide a fast and simple way of evaluating all the functionalities and configurations offered by the XTX™ and SBM<sup>2</sup> modules. Contents:

---

SMART Battery Manager Module conga-SBM<sup>2</sup>

---

SMART Battery

---

Complete set of cables required for testing in conjunction with the conga-XEVAL evaluation carrier board



## Order Information

Article	PN	Description
conga-SBM <sup>2</sup> -module	088774	SMART Battery Manager Module for XTX™
conga-SBM <sup>2</sup> -2nd accu	096582	Second battery only for the conga-SBM <sup>2</sup> Kit
conga-SBM <sup>2</sup> -Kit	026571	Starterkit to evaluate SBM-Features. With SMART-Battery Manager Module and cable set
conga-SBM <sup>2</sup> Licence and Design Kit	052741	SMART Battery Manager Module Design Kit including licence agreement for customer integration, Hardware design files (schematics, Bill of Material), Battery Manager Firmware (incl. commented source code), AVR-Programming Tool AT90 JTAG



# congatec

the rhythm of embedded computing

## Headquarter:

**congatec AG**

Auwiesenstraße 5  
94469 Deggendorf,  
Germany

Phone +49 (991) 2700-0  
Fax +49 (991) 2700-111

info@congatec.com  
www.congatec.com

## Subsidiaries:

**congatec AG Asia Pacific**

11F-2, 341, Sec 4,  
Zhong Xiao E. Rd.  
106 Taipei City, Taiwan

Phone +886 2 2775 4645  
Fax +886 2 2775 3263

sales-asia@congatec.com  
www.congatec.tw

**congatec, Inc.**

2187 Newcastle Ave, Suite 201  
Cardiff by the Sea,  
CA 92007 USA

Phone +1 760-635-2600  
Fax +1 760-635-2601

sales-us@congatec.com  
www.congatec.us

**congatec s.r.o.**

Brojova 16  
PS 326 00 Plzeň  
Czech Republic

© 2009 congatec AG. All rights reserved.

conga, congatec and XTX™ are registered trademarks of congatec AG. Intel, Pentium and Intel Atom are trademarks of Intel Corporation in the U.S. and other countries. COM Express is a registered trademark of PICMG. Express Card is a registered trademark of the Personal Computer Memory Card International Association (PCMCIA). PCI express is a registered trademark of the Peripheral Component Interconnect Special Interest Group (PCISIG). CompactFlash is a registered trademark of the Compact Flash Association. Winbond is a registered trademark of the Winbond Electronics corp. AVR is a registered trademark of the Atmel corporation. ETX is a registered trademark of Kontron Embedded Modules GmbH. AMICORE8 is a registered trademark of American Megatrends inc. Microsoft®, Windows®, Windows NT®, Windows CE and Windows XP® are registered trademarks of Microsoft corporation. VxWorks is a registered trademark of WindRiver. All product names and logos are property of the respective manufacturers. All data is for information purposes only. Although all the information contained within this document is carefully checked no guarantee of correctness is implied or expressed.

[www.congatec.com](http://www.congatec.com)

## Vendite e supporto tecnico Italia

Contradata Milano S.r.l.  
Via Solferino 12  
20052 Monza (MB) Italy  
Tel. (+39) 039.2301492  
Fax (+39) 039.2301489  
info@contradata.it  
www.contradata.it



Contradata is a distributor of embedded computer technology and covers the entire Italian territory. The local sales staff is fully capable of helping customers to define their products and configurations. Support is supplied by a strong engineering team whose solid technical background can provide essential assistance to its customers. They're not only limited to hardware solutions but can also provide software assistance when dealing with today's most common operating systems i.e. WinCE, WinXPE and Linux.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.