

NEW PRODUCT INTRODUCTION - Summer 2011

POWER:

720 W Intermediate Bus Quarter Brick

5 W Multi-blade External Power Supplies with Integrated USB

VYB Series DC-DC Converters

VSK Series AC-DC Power Modules

MOTION CONTROL

AMT303 Commutation Encoder w/Line Driver

COMPONENTS

Mid-mount Connectors



CUI INC

NEW PRODUCT INTRODUCTION

POWER

720 W Intermediate Bus Quarter Brick

Summary:

As the latest addition to CUI's Novum product line, the NQB Series intermediate bus dc-dc converter aims to address the trend of rising power requirements and efficiency demands in telecom systems and data centers, supplying an industry leading power density of 445 W/in³ across the full 36-60 V input range in an industry standard quarter brick package. Based on CUI's patented Solus Power Topology™, the 720 W IBC converter provides an output of 12 V with a peak efficiency greater than 96%. Additional features include options for DOSA 1st generation or 2nd generation footprint compatibility, remote on/off, and load share capability.

Key specs:

- 720 W power [12 Vdc, 60 A]
- 36~60 V dc input range
- 96% typ. efficiency at 12 V out, 100% load
- Quarter brick package

Differentiators:

- Based on CUI's patented Solus Power Topology
- Industry leading power density [445 W in³]
- High efficiency
- DOSA 1st generation or 2nd generation pin-outs
- Load sharing capability

Target applications:

- Servers, storage & networking

Link:

<http://www.cui.com/News/Press-Releases/Solus-1-4-brick>

More about Solus Power Topology:

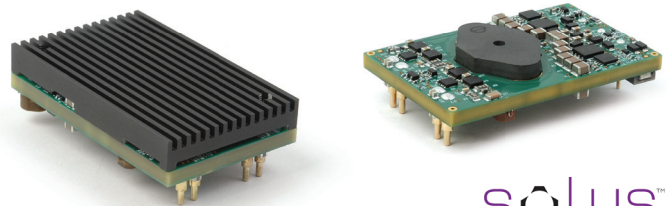
<http://www.cui.com/Solus-Power-Topology>

5 W Multi-blade External Power Supplies with Integrated USB

Summary:

The EMSA050100-I38-SZ is a new 5 W multi-blade wall mount external power supply with an

novum[®]
advanced power



solus[™]
A CUI TOPOLOGY

Intermediate Bus Quarter Brick

[5 W Multi-blade External Power Supplies continued]

integrated USB connector built directly into the adapter base. These adapters are designed for global use and come standard with user reconfigurable AC input blades for operation in the United States, Europe, the United Kingdom, and Australia. The units meet current European efficiency standards and exceed the US EISA 2007 efficiency regulations for external power supplies.

Key specs:

- 5 W power [5 Vdc, 1 A]
- Level V efficiency
- Integrated USB connector

Differentiators:

- High efficiency, meeting stringent European efficiency regulations
- Interchangeable input blades for operation in the US, Europe, the United Kingdom, and Australia
- Global safeties
- Compact package with an integrated industry standard connector

Target applications:

- Wireless communication, portable equipment, and peripherals

Distribution:

- In stock at Digi-Key

Links:

<http://www.cui.com/News/Press-Releases/5-W-USB-PR>



Multi-blade External Power Supplies

VYB Series, 4:1 Input DC-DC Converters

Summary:

The new VYB series is an expansion of our 10~20 W line up of dc-dc converters. These new high efficiency parts are packaged in an industry standard 2"x1" footprint and support 4:1 inputs, making them ideal for battery-driven applications where charging and discharging conditions require an ultra-wide input range. All units also come standard with an operating temperature range of -40 to +85 °C for use in harsh environments.

Key specs:

- 10 W, 15 W, and 20 W dc-dc conversion
- Ultra wide 4:1 inputs [9-36 Vdc or 18-75 Vdc]

[VYB Series continued]

- Industry standard 2" x 1" footprint
- Single and dual outputs
- Wide operating temp [-40 to +85 °C]

Differentiators:

- Compact size
- Board and chassis mount configuration available
- Fast lead-times

Target applications:

- Portable, battery driven equipment

Distribution:

- Coming soon to Digi-Key

Links:

Board Mount

VYB10W

VYB15W

VYB20W

Chassis Mount

VYB10W-T

VYB15W-T

VYB20W-T



VYB Board and Chassis Mount DC-DC Converters

VSK Series, AC-DC Power Modules

Summary:

CUI has extended our VSK series of encapsulated ac-dc power modules. The latest release includes 5 W, 10 W, 20 W, and 25 W units which significantly expands the number of offerings within the VSK series. The new VSK series are compact, fully encapsulated modules which can accept either AC [85-264 Vac] or DC [110-370 Vdc] inputs. All units include UL 60950-1 safety approvals.

Key specs:

- 5 W, 10 W, 15 W, 20 W, and 25 W ac-dc power

[VSK Series continued]

- Fully encapsulated
- 3000 Vac isolation
- Over current, over voltage, and short circuit protections
- UL safeties

Differentiators:

- Compact size
- Fast lead-times

Target applications:

- Industrial control, instrumentation, communication equipment

Distribution:

- Coming soon to Digi-Key

Links:

VSK-S5
VSK-S10
VSK-S15
VSK-S20
VSK-S25



AC-DC Power Modules

MOTION CONTROL

AMT303 Commutation Encoder w/Line Driver

Summary:

CUI has released a second series in the AMT303 line that includes an integrated line driver output with supplementary incremental A, B, and Z channels for various servo positioning and startup sequences. The AMT303 generates standard U/V/W commutation signals for vectoring current to brushless dc motors. Commutation output can accommodate brushless motors with 2, 4, 6, 8, 10, 12 or 20 pole pairs. When compared to optical encoders typically used in commutation applications, the new AMT303 will bring a level of ruggedness and ease of use unrivaled in the industry.

Key specs:

- Line driver output for various servo positioning and startup sequences
- Up to 1024 PPR resolution

[AMT303 Commutation Encoder continued]

- Zero position programmable by flash module or ground trigger
- Three phase U, V, W
- Selectable pole count for 2, 4, 6, 8, 10, 12, 20 pole motors
- Commutation angle adjustable

Differentiators:

- Flexible- 9 shaft adapters mate with various motors
- Rugged- resilient to dust & dirt, temperature & vibration
- Green- less than 10 mA current consumption
- Simple- quick & easy to assemble on a motor compared to competition

Target applications:

- Application that utilized brushless dc motors

Distribution:

- Coming soon to Digi-Key

Links:

<http://www.cui.com/News/Press-Releases/AMT303LD>



AMT303 Commutation Encoder

COMPONENTS

Mid-mount DC Power Jacks & Audio Jacks

Summary:

CUI has released several new 3.5 mm audio jacks and 2.5 mm dc center pin dc power jacks that are specifically designed to mount midway through pc boards. These mid-mount connectors are ideally suited for low profile design requirements in consumer electronics applications.

Key specs:

- Dc jacks rated to 16 Vdc @ 5 A
- Audio jacks include
 - ring switch options
 - tip switch options
 - two switch configurations
 - three switch configurations
- Audio jacks come in 3 conductor and 4 conductor configurations

[Mid-mount Power Jacks & Audio Jacks continued]

Differentiators:

- Mid-mount PCB capability, ideally suited for low profile design requirements
- Dc jacks are fully shielded for EMI suppression

Target applications:

- Consumer electronics and electrical equipment

Distribution:

- In stock at Digi-Key

Links:

<http://www.cui.com/News/Press-Releases/CUI-Releases-Mid-Mount-Connector-Offering>



2.5 mm DC Power Jack



3.5 mm Audio Jack