

SN-BatteryCharger_V09

Solution Notes for **CORERIVER Battery Charger**

V0.9

September 2007

- ◆ CORERIVER Semiconductor reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time.
- ◆ CORERIVER shall give customers at least a three month advance notice of intended discontinuation of a product or a service through its homepage.
- ◆ Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete.
- ◆ The CORERIVER products listed in this document are intended for usage in general electronics applications. These CORERIVER products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury.

World Wide No. 1 MCU SoC Company (2015)

Revenue Target : US\$ 1B (2015)

Revenue Target : US\$ 50M (2010)

MCU (CISC/RISC), DSP, ARM
SoC (Application Specific)

Develop RISC, DSP Cores

Strategic Partnership
With Customers

Application Specific MCUs by
Strategic Partnership with Customers

Develop MCU Turbo Core

Good-Coverage of Market

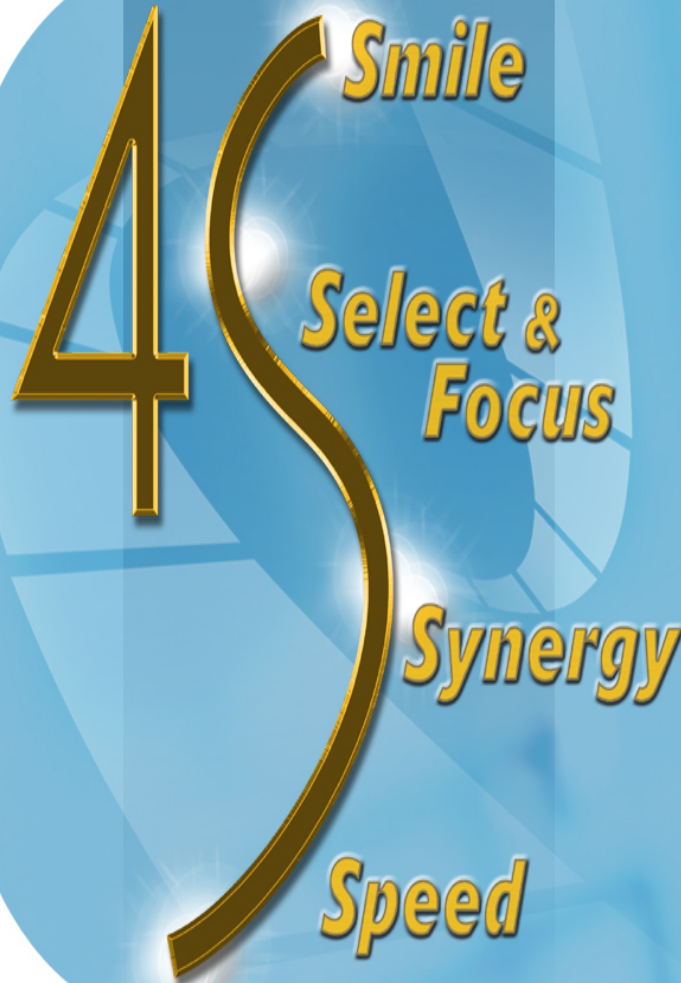
General Purpose MCUs :
MiDAS Family

Develop MDS & IPs

Sales & Marketing

Well Experienced R&D

Total Solution of MCU



1. **Smile** (Human First)

We always smile to our partners.

2. **Select and Focus** (Important Thing First)

We always select and focus on important things.

3. **Synergy** (Win–Win Strategy)

We always try to maximize synergy with our partners.

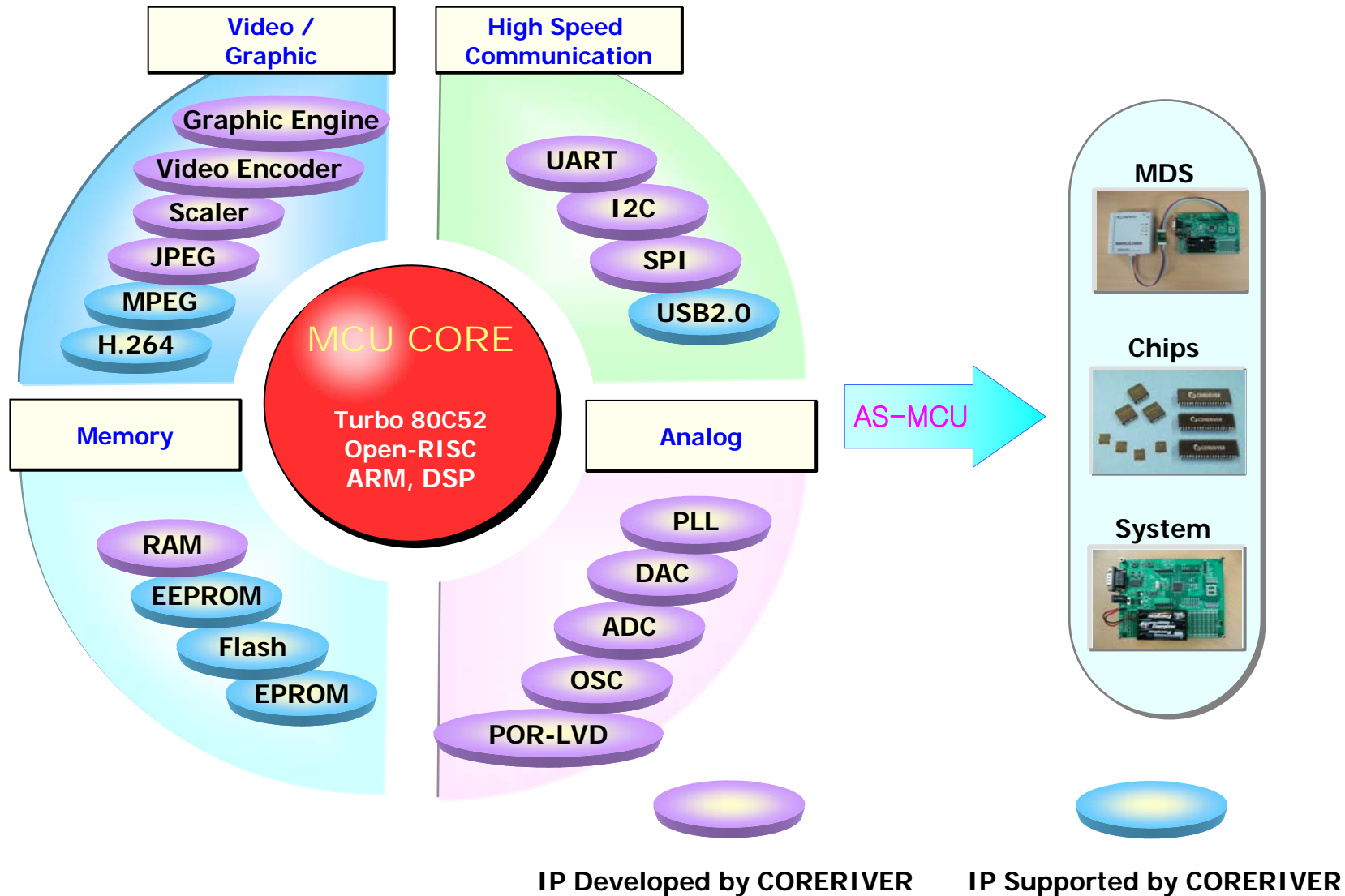
4. **Speed** (Fast Response)

We always speed up our response to the partner's request.



AS-MCU (Application Specific MCU)

Confidential





◆ 주요 기능

✓ 충전 기능

- Battery 특성에 맞춘 전압 & 전류 조작.
- Battery 상태를 검출하여 Smart 충전.

✓ 보호 기능

- 과열 방지로 Charger 자체 보호.
- 과 충전 방지로 Battery 보호.
- 초기 전류량 검출하여 폭발의 위험에서 보호
- 일정시간 충전 중지 기능으로 Battery 보호
- 보충전 기능으로 Battery 수명 보호.

✓ Display 기능

- 충전 중 상태 표시 : 붉은 LED
- 충전 완료 상태 표시 : 녹색 LED
- 다채로운 Error 상태 표시
(이상동작 ex) Battery 접촉 불량.

Battery 상태 이상 등..

Travel Charger Sol.



USB Charger Sol.



**CORERIVER
Charger Sol.**

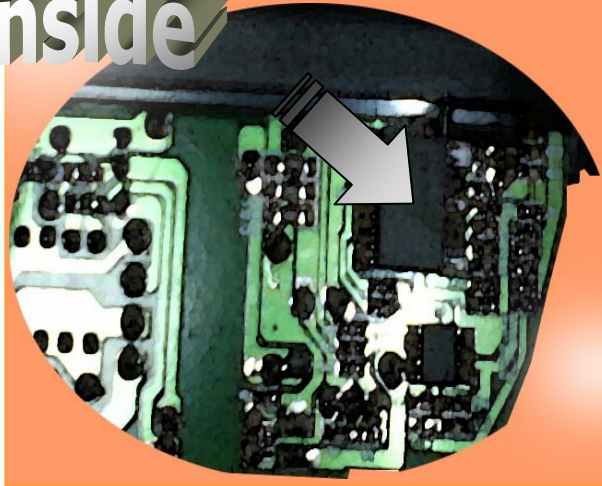
BTC Charger Sol.



Charger Sol. Etc.



CORERIVER
Inside



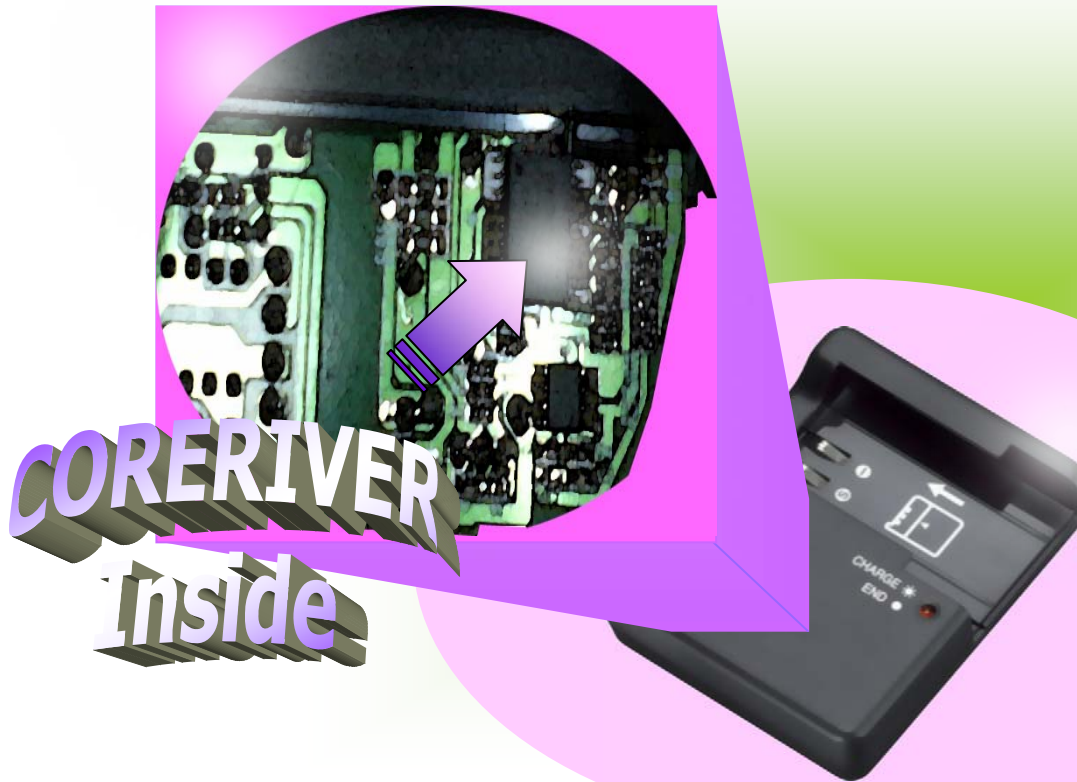
CORERIVER
Travel Charger

- ✓ 가정용 일반 전원을 이용한 Battery Charger Sol.
- ✓ Adapter 부분에 Charger를 동시 구현, 한국의 TTA 충전기가 이에 속한다.



**CORERIVER
USB Charger**

- ✓ 케이블 부분에 Charger를 구현, PC의 USB Port를 이용하여 Charging하는 방식.
- ✓ 핸드폰, 디지털 카메라 등에서 유용하게 사용될 수 있다.



**CORERIVER
BTC Charger**

- ✓ Battery holder 또는 거치대에 Charger가 구현된 방식.
- ✓ Travel adapter 또는 PC의 USB Cable을 이용하여 충전할 수 있다.

CORERIVER BTC Charger



- ✓ MP3, PMP 등 휴대용 기기의 내부에 Charger를 구현하는 방식.
- ✓ 정격 Adapter에 연결하여 내부 Battery에 충전할 수 있다.