

Overview

- CH2016 is a new USB high-speed programmer available from Shenzhen Chuanghui.
- The CH2016 supports 24, 25, 93 EEPROM, SPI FLASH and AVR microcontrollers.
- CH2016 supports the programming of rolling code chip.
- CH2016 is safe, fast and portable.

CH2016 Product Features

- Small and portable.
- Built-in self-healing fuses provide continuous protection for the device.
- USB 2.0 interface for speeds up to 12Mbps.
- Support HCS series rolling code chip programming operation.
- Support 24 EEPROM, 25 EEPROM, 93 EEPROM, SPI FLASH and other series of memory chips and AVR microcontroller.
- Support software and firmware automatic detection upgrade, more support for chip models continue to add.
- The software supports multiple languages, the user can customize the interface language as needed.
- Friendly buffer editing window.
- Support Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10.

CH2016 More product features

- Connect the PC as a normal programmer.
- Offline writer (can be completely out of the computer).
- Up and down two locations common, casually put the chip can be burned at the same time two.
- Support for STM32 microcontrollers.
- Chip replication, support for memory chips can be copied (24,25,93, spiflash, dataflash).
- Card reader function.
- Virtual serial port function.
- multi-lingual.
- One-shot N-volume production.
- E-books.
- Video playback.
- High-precision real-time clock.
- TF card can be expanded to 32GB.
- Chip identification (supported on all chips).
- Customize the start-up screen / animation.

system requirement

Minimum system requirements:

- Operating system: Win2000 / XP / Vista / 7/8.

- Resolution: 1024 * 768.
- USB1.0 standard Universal Serial Bus interface.
- CD-ROM drive.
- 64M of RAM.
- At least 10M of free space on the hard disk.

Support chip list

***** HOPPING CODE *****

* Rolling Code Edition *

HCS301; HCS360; HCS361; HCS201;

***** 24 EEPROM *****

ATMEL: AT24C01; AT24C01A; AT24C01B; AT24C02; AT24C02A; AT24C02B;
AT24C02D; AT24C04; AT24C04A; AT24C04B; AT24C08; AT24C08A;
AT24C08B; AT24RF08C; AT24C16; AT24C16A; AT24C16B; AT24C32; AT24C32A;
AT24C32B; AT24C64; AT24C64A; AT24C64B; AT24C128; AT24C128A;
AT24C128B; AT24C256; AT24C256A; AT24C256B; AT24C512; AT24C512A;
AT24C512B; AT24C1024; AT24C1024A; AT24C1024B;

CATALYST: CAT24C01; CAT24C02; CAT24C04; CAT24C08; CAT24C16;
CAT24C32; CAT24C64; CAT24C128; CAT24C256; CAT24C512; CAT24C1024;

CORC: 24C01; 24C02; 24C04; 24C08; 24C16; 24C32; 24C64; 24C128; 24C256;
24C512; 24C1024;

FAIRCHILD: FM24C01; FM24C02; FM24C03; FM24C04; FM24C05; FM24C08;
FM24C09; FM24C16; FM24C17; FM24C32; FM24C64; FM24C128; FM24C256;
FM24C512; FM24C1024;

HOLTEK: HT24C01; HT24LC01; HT24C02; HT24LC02; HT24C04; HT24LC04;
HT24C08; HT24LC08; HT24C16; HT24LC16; HT24C32; HT24LC32; HT24C64;
HT24LC64; HT24C128; HT24LC128; HT24C256; HT24LC256; HT24C512;
HT24C1024;

IS24C01, IS24C02, IS24C04, IS24C08, IS24C16, IS24C32, IS24C64, IS24C128,
IS24C256, IS24C512, IS24C1024,

MICROCHIP: 24AA00; 24FC00; 24LC00; 24AA01; 24FC01; 24LC01; 24AA02;
24FC02; 24LC02; 24AA04; 24FC04; 24LC04; 24AA08; 24FC08; 24LC08; 24AA16;
24FC16; 24LC16; 24AA32; 24FC32; 24LC32; 24AA64; 24FC64; 24LC64; 24CA128;
24LC128; 24AA256; 24FC256; 24LC256; 24AA512; 24FC512; 24LC512;
24AA1026; 24FC1026; 24LC1026;

NSC: 24C02; 24C02L; 24C64;

NXP: PCA24S08;

FM24C16A; FM24C16A; FM24C16A; FM24C64A; FM24C24A;

ROHM: BR24C01; BR24L01; BR24C02; BR24L02; BR24C04; BR24C04; BR24C08;
BR24L08; BUL08; BR24C16; BR24L16; BR24C32; BR24L32; BR24C64;
BR24L64;

SANYO: LE26CAP08;

ST: M24C01; ST24C01; M24C02; ST24C02; M24C04; ST24C04; M24C08;
ST24C08; M24C16; ST24C16; M24C32; ST24C32; M24C64; ST24C64; M24128;
M24256; M24512; M24M01; M24M02;
X24C04; X24C04; X24C04; X24C04;

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EEPROM

ATMEL AT25010; AT25020; AT25040; AT25080; AT25160; AT25320; AT25640;
AT25128; AT25256; AT25512;

CATALYST: CAT25C01; CAT25C01P; CAT25C01S; CAT25C01U; CAT25C02P;
CAT25C02S; CAT25C02U; CAT25C03P; CAT25C03S; CAT25C03U; CAT25C04P;
CAT25C04S; CAT25C04U; CAT25C05P; CAT25C05S; CAT25C05U; CAT25C08P;
CAT25C08S; CAT25C08U; CAT25C09P; CAT25C09S; CAT25C09U; CAT25C16P;
CAT25C16S; CAT25C16U; CAT25C17P; CAT25C17S; CAT25C17U; CAT25C32P;
CAT25C32S; CAT25C33P; CAT25C33S; CAT25C64P; CAT25C64S; CAT25C65P;
CAT25C65S; CAT25C128P; CAT25C128S; CAT25C256P; CAT25C256S;

CORC: 25C01, 25C02, 25C040, 25C080, 25C160, 25C320, 25C640, 25C128,
25C256,

MICROCHIP: 25AA040; 25C040; 25LC040; 25AA080; 25C080; 25LC080;
25AA160; 25C160; 25LC160; 25AA320; 25C320; 25LC320; 25AA640; 25C640;
25LC640; 25AA128; 25LC128; 25AA256; 25LC256;

FM25V04; FM25V0; FM25V0; FM25V10; FM25V20; FM25V20;

ST: M95010; ST25C01; ST25W01; M95020; ST25C02; ST25W02; M95040;
ST25C04; ST25W04; M95080; ST25C08; ST25W08; M95160; ST25C16; ST25W16;
M95320; M95640; M95128; M95256; M95512; M95M01; M95M02;

TI: TI2532; TI2532A; TI2564;

X25516; X25512; X25628; X25128; X25256; X25512;

93 EEPROM

ACE: ACE93C46-16bit; ACE93C46-8bit;

AKM: AK93C45A; AK93C55A; AK93C65A; AK93C75A;

ATC93C86-8bit; ATC93C66-8bit; ATC93C66-8bit; ATC93C66-8bit; ATC93C66-8bit;

The present invention relates to an ATMEL: 93C46-16bit, 93C46-8bit, 93C46B,
93C46C-16bit, 93C46Cbit, 93C56-8bit, 93C56-8bit, 93C56Bbit, 93C56Cab, 93C66A;
93C66B; 93C66C-16bit; 93C66C-8bit; 93C76-16bit; 93C76-8bit; 93C76A; 93C76B;
93C76C-16bit; 93C76C-8bit; 93C86-16bit; 93C86-8bit; 93C86A; 93C86B;
93C86C-16bit; 93C86C- 8bit;

CAT93C46-8bit; CAT93C56-8bit; CAT93C56-8bit; CAT93C56-8bit; CAT93C56-8bit;
CAT93C56-8bit; CAT93C56-8bit;

CORE: 93C06; 93C46-8BIT; 93C56-8BIT; 93C56-8BIT; 93C86-8BIT; 93C66-8BIT;
93C86-8BIT;

XL93C46; XL93C46; XL93C66; XL93C66;

FM93C56A-8bit; FM93C66A-8bit; FM93C66A-8bit; FM93C56A-8bit;

FM93C56A-8bit;
 HOLTEK: HT93LC46-16bit; HT93LC46-8bit; HT93LC56-16bit; HT93LC56-8bit;
 HT93LC66-16bit; HT93LC66-8bit;
 IS93C46A-16bit; IS93C46A-8bit; IS93C46A-8bit; IS93C56A-8bit; IS93C56A-16bit;
 IS93C56A-8bit; IS93C66A-8bit;
 MICROCHIP: 93C06; 93AA46-16bit; 93AA46-8bit; 93C46-16bit; 93C46-8bit;
 93C46A; 93C46B; 93LC46-16bit; 93LC46-8bit; 93LC46A; 93LC46B; 93AA56-16bit;
 93AA56-8bit; 93C56-16bit; 93C56- 8bit; 93C56A; 93C56B; 93LC56-16bit;
 93LC56-8bit; 93LC56A; 93LC56B; 93AA66-16bit; 93AA66-8bit; 93C66-16bit;
 93C66-8bit; 93C66A; 93C66B; 93LC66-16bit; 93LC66-8bit; 93LC66A; 93LC66B;
 93C76-8bit; 93C76-16bit; 93C76-8bit; 93LC76-8bit; 93LC76-8bit; 93AA86-16bit;
 93AA86-8bit;
 NSC: 93C06; 93CS06; 93C46; 93CS46; 93C56; 93CS56; 93C66; 93CS66; 93C86;
 ROHM: BR93LC46; BR93LC46RF; BR93LC56; BR93LC56RF; BR93LC66;
 BR93LC66RF;
 SEIKO: S-93C46A; S-93C56A; S-93C66A;
 ST: ST93C06; M93C46-16bit; M93C46-8bit; M93S46; M93S46R; M93S46W;
 ST93C46; M93C56-16bit; M93C56-8bit; M93S56; M93S56R; M93S56W; ST93C56;
 M93C66-16bit; M93C66-8bit; M93S66; M93S66R; M93S66W; ST93C66;
 M93C76-16bit; M93C76-8bit; M93C86-16bit; M93C86-8bit;

***** SPI FLASH *****

EPCS1; EPCS4; EPCS16; EPCS64; EPCS128;
 AMIC: A25L05PT; A25L05PU; A25L512; A25L010; A25L10PT; A25L10PU;
 A25L020; A25L20PT; A25L20PU; A25L040; A25L40P; A25L080; A25L80P;
 A25L016; A25L16PT; A25L16PU; A25LQ16; A25L032; A25LQ032; A25LQ32A;
 A25LQ64;
 ATMEL: AT25F512; AT25F512A; AT25F512B; AT25F1024; AT25F1024A;
 AT25FS010; AT25DF021; AT25F2048; AT25FS020; AT25DF041A; AT25F4096;
 AT25FS040; AT25SF041; AT26F004; AT25SF081; AT26DF081A; AT25DF161;
 AT25SF161; AT26DF161; AT26DF161A; AT25DF321; AT25DF321A; AT26DF321;
 AT25DF641;
 BERG: BG25Q40A; BG25Q80A; BG25Q16A; BG25Q32A;
 CHINGIS: Pm25LD256C; Pm25LD512; Pm25LD512C; Pm25LQ512A; Pm25LD010;
 Pm25LD010C; Pm25LQ010A; Pm25LD020; Pm25LD020C; Pm25LQ020A;
 Pm25LD040; Pm25LD040C; Pm25LQ040A; Pm25LQ080; Pm25LQ016;
 Pm25LQ032C;
 25P25; 25P25; 25P25; 25P15; 25P16;
 EON: EN25B05; EN25B05T; EN25F05; EN25LF05; EN25P05; EN25B10;
 EN25B10T; EN25D10; EN25F10; EN25LF10; EN25P10; EN25B20; EN25B20T;
 EN25D20; EN25F20; EN25LF20; EN25P20; EN25B40; EN25B40T; EN25D40;
 EN25F40; EN25LF40; EN25P40; EN25B80; EN25B80T; EN25D80; EN25F80;
 EN25P80; EN25Q80A; EN25T80; EN25B16; EN25B16T; EN25D16; EN25F16;

EN25P16; EN25Q16; EN25Q16A; EN25QH16; EN25T16; EN25B32; EN25B32T;
EN25F32; EN25P32; EN25Q32A; EN25Q32B; EN25QH32A; EN25B64; EN25B64T;
EN25F64; EN25QH256; EN25QH256; EN25QH256; EN25QH256;
ESMT: F25L01PA; F25L02PA; F25L004A; F25L004AT; F25L04PA; F25L04UA;
F25L008A; F25L008AT; F25L08PA; F25L08QA; F25L016A; F25L016AT;
F25L16PA; F25L16QA; F25L32A; F25L32AT; F25L32PA; F25L32QA; F25L64QA;
ES25P30; ES25P40; ES25M40; ES25M40A; ES25P40; ES25M80; ES25M80A;
ES25P80; ES25M16; ES25M16A; ES25P16; ES25P32;
FM: FM25F005; FM25F01; FM25F02; FM25F04; FM25FQ32;
GD25Q40B; GD25Q40B; GD25Q40B; GD25Q16B; GD25Q16B; GD25Q16B;
GD25Q32B; GD25Q64B; GD25Q64C; GD25Q128C;
M25P05; M25P10; M25P20; M25P40; M25P80; M25P16; M25P32; N25Q032;
N25Q032A; M25P64; N25Q064A; M25P128; N25Q128; N25Q128A; N25Q256;
N25Q256A; MT25QL512AB;
MXIC: MX25U5121E; MX25L5121E; MX25L512E; MX25R512F; MX25V512E;
MX25V512F; MX25L512; MX25V512; MX25U1001E; MX25L1006E;
MX25L1021E; MX25L1026E; MX25R1035F; MX25V1006E; MX25V1035F;
MX25L1005; MX25U2032E; MX25U2033E; MX25L2006E; MX25L2026E;
MX25R2035F; MX25V2006E; MX25V2035F; MX25L2005; MX25U4032E;
MX25U4033E; MX25U4035; MX25V4035; MX25L4006E; MX25L4026E;
MX25R4035F; MX25V4006E; MX25V4035F; MX25L4005A; MX25V4005;
MX25U8032E; MX25U8033E; MX25U8035; MX25U8035E; MX25V8035;
MX25L8006E; MX25L8008E; MX25L8035E; MX25L8036E; MX25L8073E;
MX25R8035F; MX25V8006E; MX25V8035F; MX25L8005; MX25V8005;
MX25U1635E; MX25U1635F; MX25L1606E; MX25L1608E; MX25L1633E;
MX25L1635E; MX25L1636D; MX25L1636E; MX25L1673E; MX25R1635F;
MX25V1635F; MX25L1605D; MX25L1635D; MX25U3235E; MX25U3235F;
MX25L3206E; MX25L3208E; MX25L3233F; MX25L3235E; MX25L3236D;
MX25L3236F; MX25L3239E; MX25L3273E; MX25L3273F; MX25L3275E;
MX25R3235F; MX25L3205D; MX25L3225D; MX25L3235D; MX25L3237D;
MX25U6435F; MX25U6473F; MX25L6406E; MX25L6408E; MX25L6433F;
MX25L6435E; MX25L6436E; MX25L6436F; MX25L6439E; MX25L6445E;
MX25L6465E; MX25L6473E; MX25L6473F; MX25L6475E; MX25R6435F;
MX25L6405D; MX25U12835F; MX25U12873F; MX25L12835F; MX25L12836E;
MX25L12839F; MX25L12845E; MX25L12845G; MX25L12850F; MX25L12865E;
MX25L12865F; MX25L12873F; MX25L12875F; MX25L12805D; MX25L12835E;
MX25U25635F; MX25L25635E; MX25L25635F; MX25L25639F; MX25L25645G;
MX25L25673G; MX25L25735E; MX25L25735F; MX25L25835E; MX25U51245G;
MX25UM51245G; MX66U51235F; MX25L51237G; MX25L51245G;
MX66L51235F; MX66L1G45G;
NX25P10; NX25P40; NX25P40;
PMC: PM25LV512; PM25LV010; PM25LV020; PM25LV040; PM25LV080B;
PM25LV016B;
SAIFUN: SA25F005; SA25F010; SA25F020; SA25F040; SA25F080; SA25F160;

SA25F320;
SPSSION: S25FL004A; S25FL008A; S25FL016A; S25FL116K; S25FL032A;
S25FL132K; S25FL064A; S25FL164K; S25FL128K; S25FL128S; S25FL256S;
S25FL512S;
SST: SST25LF512A; SST25VF512; SST25VF512A; SST25LF010A; SST25VF010;
SST25VF010A; SST25LF020A; SST25VF020; SST25VF020A; SST25VF020B;
SST25LF040A; SST25VF040; SST25VF040A; SST25VF040B; SST25LF080A;
SST25VF080; SST25VF080A; SST25VF080B; SST25VF016B; SST25VF032B;
SST25VF064C;
ST: M25P05; M25P05A; M25P10; M25P10A; M25PE10; M25P20; M25P20A;
M25PE20; M25P40; M25P40A; M25PE40; M25P80; M25P80A; M25PE80;
M25PX80; M25P16; M25PE16; M25PX16; M25P32; M25PX32; M25P64;
M25PX64; M25P128;
WINBOND: W25Q10EW; W25P10; W25X10; W25X10A; W25X10AL; W25X10L;
W25Q20BW; W25Q20EW; W25P20; W25Q20; W25X20; W25X20A; W25X20AL;
W25X20L; W25Q40BW; W25Q40EW; W25P40; W25Q40; W25X40; W25X40A;
W25X40AL; W25X40L; W25Q80BW; W25Q80EW; W25P80; W25Q80; W25X80;
W25X80A; W25X80AL; W25X80L; W25Q16DW; W25Q16FW; W25P16; W25Q16;
W25X16; W25Q32FW; W25P32; W25Q32; W25X32; W25Q64FW; W25Q64;
W25X64; W25Q128FW; W25Q128; W25Q256; W25M512JV;

***** DATA FLASH *****

ATMEL: AT45DB011D-bin; AT45DB011B; AT45DB011D; AT45DB021D-bin;
AT45DB021B; AT45DB021D; AT45DB041D-bin; AT45DB041B; AT45DB041D;
AT45DB081D-bin; AT45DB081B; AT45DB081D; AT45DB161D-bin; AT45DB161B;
AT45DB161D; AT45DB321D-bin; AT45DB321B; AT45DB321D; AT45DB642D-bin;
AT45DB642B; AT45DB642D;

***** STM32 *****

STM32F0xx: STM32F030F4; STM32F031C4; STM32F031F4; STM32F031G4;
STM32F031K4; STM32F042C4; STM32F042F4; STM32F042G4; STM32F042K4;
STM32F051C4; STM32F051K4; STM32F051R4; STM32F030C6; STM32F030K6;
STM32F031C6; STM32F031E6; STM32F031F6; STM32F031G6; STM32F031K6;
STM32F038C6; STM32F038E6; STM32F038F6; STM32F038G6; STM32F038K6;
STM32F042C6; STM32F042F6; STM32F042G6; STM32F042K6; STM32F042T6;
STM32F048C6; STM32F048G6; STM32F048T6; STM32F051C6; STM32F051K6;
STM32F051R6; STM32F070C6; STM32F070F6; STM32F030C8; STM32F030R8;
STM32F051C8; STM32F051K8; STM32F051R8; STM32F051T8; STM32F058C8;
STM32F058R8; STM32F058T8; STM32F071V8; STM32F072C8; STM32F072R8;
STM32F072V8; STM32F070CB; STM32F070RB; STM32F071CB; STM32F071RB;
STM32F071VB; STM32F072CB; STM32F072RB; STM32F072VB; STM32F078CB;
STM32F078RB; STM32F078VB; STM32F091CB; STM32F091RB; STM32F091VB;

STM32F030CC; STM32F030RC; STM32F091CC; STM32F091RC; STM32F091VC;
STM32F098CC; STM32F098RC; STM32F098VC;
STM32F10x: STM32F100C4; STM32F100R4; STM32F101C4; STM32F101R4;
STM32F101T4; STM32F102C4; STM32F102R4; STM32F103C4;
STM32F103R4; STM32F103T4; STM32F100C6; STM32F100R6; STM32F101C6;
STM32F101R6; STM32F101T6; STM32F102C6; STM32F102R6; STM32F103C6;
STM32F103R6; STM32F103T6; STM32F100C8; STM32F100R8; STM32F100V8;
STM32F101C8; STM32F101R8; STM32F101T8; STM32F101V8; STM32F102C8;
STM32F102R8; STM32F103C8; STM32F103R8; STM32F103T8; STM32F103V8;
STM32F105R8; STM32F105V8; STM32F100CB; STM32F100RB; STM32F100VB;
STM32F101CB; STM32F101RB; STM32F101TB; STM32F101VB; STM32F102CB;
STM32F102RB; STM32F103CB; STM32F103RB; STM32F103TB; STM32F103VB;
STM32F105RB; STM32F105VB; STM32F107RB; STM32F107VB; STM32F100RC;
STM32F100VC; STM32F100ZC; STM32F101RC; STM32F101VC; STM32F101ZC;
STM32F103RC; STM32F103VC; STM32F103ZC; STM32F105RC; STM32F105VC;
STM32F107RC; STM32F107VC; STM32F100RD; STM32F100VD; STM32F100ZD;
STM32F101RD; STM32F101VD; STM32F101ZD; STM32F103RD;
STM32F103VD; STM32F103ZD; STM32F100RE; STM32F100VE; STM32F100ZE;
STM32F101RE; STM32F101VE; STM32F101ZE; STM32F103RE; STM32F103VE;
STM32F103ZE; STM32F101RF; STM32F101VF; STM32F101ZF;
STM32F103RF; STM32F103VF; STM32F103ZF; STM32F101RG; STM32F101VG;
STM32F101ZG; STM32F103RG; STM32F103VG; STM32F103ZG;
STM32F2xx: STM32F205RB; STM32F205VB; STM32F205RC; STM32F205VC;
STM32F205ZC; STM32F207IC; STM32F207VC; STM32F207ZC; STM32F205RE;
STM32F205VE; STM32F205ZE; STM32F207IE; STM32F207VE; STM32F207ZE;
STM32F215RE; STM32F215VE; STM32F215ZE; STM32F217IE; STM32F217VE;
STM32F217ZE; STM32F205RF; STM32F205VF; STM32F205ZF; STM32F207IF;
STM32F207VF; STM32F207ZF; STM32F205RG; STM32F205VG; STM32F205ZG;
STM32F207IG; STM32F207VG; STM32F207ZG; STM32F215RG; STM32F215VG;
STM32F215ZG; STM32F217IG; STM32F217VG; STM32F217ZG;
STM32F30x: STM32F334C4; STM32F334K4; STM32F301C6; STM32F301K6;
STM32F301R6; STM32F302C6; STM32F302C8; STM32F302K6; STM32F302R6;
STM32F303C6; STM32F303K6; STM32F303R6; STM32F334C6; STM32F334K6;
STM32F334R6; STM32F301C8; STM32F301K8; STM32F301R8; STM32F302K8;
STM32F302R8; STM32F303C8; STM32F303K8; STM32F303R8; STM32F318C8;
STM32F318K8; STM32F328C8; STM32F334C8; STM32F334K8; STM32F334R8;
STM32F373C8; STM32F373R8; STM32F373V8; STM32F302CB; STM32F302RB;
STM32F302VB; STM32F303CB; STM32F303RB; STM32F303VB; STM32F373CB;
STM32F373RB; STM32F373VB; STM32F302CC; STM32F302RC; STM32F302VC;
STM32F303CC; STM32F303RC; STM32F303VC; STM32F358CC; STM32F358RC;
STM32F358VC; STM32F373CC; STM32F373RC; STM32F373VC; STM32F378CC;
STM32F378RC; STM32F378VC; STM32F302RD; STM32F302VD; STM32F302ZD;
STM32F303RD; STM32F303VD; STM32F303ZD; STM32F302RE; STM32F302VE;
STM32F302ZE; STM32F303RE; STM32F303VE; STM32F303ZE; STM32F398VE;

STM32F4xx: STM32F401CB; STM32F401RB; STM32F401VB; STM32F401CC;
STM32F401RC; STM32F401VC; STM32F411CC; STM32F411RC; STM32F411VC;
STM32F446MC; STM32F446RC; STM32F446VC; STM32F446ZC;
STM32F401CD; STM32F401RD; STM32F401VD; STM32F401CE; STM32F401RE;
STM32F401VE; STM32F4050E; STM32F407IE; STM32F407VE; STM32F407ZE;
STM32F411CE; STM32F411RE; STM32F411VE; STM32F417IE; STM32F417VE;
STM32F417ZE; STM32F429BE; STM32F429IE; STM32F429NE; STM32F429VE;
STM32F429ZE; STM32F446ME; STM32F446RE; STM32F446VE; STM32F446ZE;
STM32F469AE; STM32F469BE; STM32F469IE; STM32F469NE; STM32F4050G;
STM32F405RG; STM32F405VG; STM32F405ZG; STM32F407IG; STM32F407VG;
STM32F407ZG; STM32F4150G; STM32F415RG; STM32F415VG; STM32F415ZG;
STM32F417IG; STM32F417VG; STM32F417ZG; STM32F427AG; STM32F427IG;
STM32F427VG; STM32F427ZG; STM32F429BG; STM32F429IG; STM32F429NG;
STM32F429VG; STM32F429ZG; STM32F437IG; STM32F437VG; STM32F437ZG;
STM32F439BG; STM32F439IG; STM32F439NG; STM32F439VG; STM32F439ZG;
STM32F469AG; STM32F469BG; STM32F469IG; STM32F469NG; STM32F479AG;
STM32F479BG; STM32F479IG; STM32F479NG; STM32F427AI; STM32F427II;
STM32F427VI; STM32F427ZI; STM32F429AI; STM32F429BI; STM32F429II;
STM32F429NI; STM32F429VI; STM32F429ZI; STM32F437AI; STM32F437II;
STM32F437VI; STM32F437ZI; STM32F439AI; STM32F439BI; STM32F439II;
STM32F439NI; STM32F439II; STM32F469I; STM32F479BI; STM32F479I;
STM32F479NI;

STM32L0xx: STM32L031C4; STM32L031E4; STM32L031F4; STM32L031G4;
STM32L031K4; STM32L041F4; STM32L031C6; STM32L031E6; STM32L031G6;
STM32L031K6; STM32L041C6; STM32L041G6; STM32L041K6; STM32L051C6;
STM32L051K6; STM32L051R6; STM32L051T6; STM32L052C6; STM32L052K6;
STM32L052R6; STM32L052T6; STM32L053C6; STM32L053R6; STM32L051C8;
STM32L051K8; STM32L051R8; STM32L051T8; STM32L052C8; STM32L052K8;
STM32L052R8; STM32L052T8; STM32L053C8; STM32L053R8; STM32L062K8;
STM32L063C8; STM32L063R8; STM32L071K8; STM32L071V8; STM32L072V8;
STM32L073V8; STM32L083V8; STM32L071CB; STM32L071KB; STM32L071RB;
STM32L071VB; STM32L072CB; STM32L072KB; STM32L072RB;
STM32L072VB; STM32L073RB; STM32L073VB; STM32L081CB;
STM32L081RB; STM32L082KB; STM32L083RB; STM32L083VB;
STM32L071CZ; STM32L071KZ; STM32L071RZ; STM32L071VZ; STM32L072CZ;
STM32L072KZ; STM32L072RZ; STM32L072VZ; STM32L073CZ; STM32L073RZ;
STM32L073VZ; STM32L083CZ; STM32L083RZ; STM32L083VZ;

STM32L1xx: STM32L100C6-A; STM32L100C6; STM32L151C6-A;
STM32L151C6; STM32L151R6-A; STM32L151R6; STM32L152C6-A;
STM32L152C6; STM32L152R6-A; STM32L152R6; STM32L100R8-A;
STM32L100R8; STM32L151C8-A; STM32L151C8; STM32L151R8-A;
STM32L151R8; STM32L151V8-A; STM32L151V8; STM32L152C8-A;
STM32L152C8; STM32L152R8-A; STM32L152R8; STM32L152V8-A;
STM32L152V8; STM32L100RB-A; STM32L100RB; STM32L151CB-A;

STM32L151CB; STM32L151RB-A; STM32L151RB; STM32L151VB-A;
 STM32L151VB; STM32L152CB-A; STM32L152CB; STM32L152RB-A;
 STM32L152RB; STM32L152VB-A; STM32L152VB; STM32L100RC;
 STM32L151CC; STM32L151QC; STM32L151RC-A; STM32L151RC;
 STM32L151UC; STM32L151VC; STM32L151ZC; STM32L152CC;
 STM32L152QC; STM32L152RC-A; STM32L152RC; STM32L152UC;
 STM32L152VC; STM32L152ZC; STM32L162RC-A; STM32L162RC;
 STM32L162VC-A; STM32L162VC; STM32L151QD; STM32L151RD;
 STM32L151VD-X; STM32L151VD; STM32L151ZD; STM32L152QD;
 STM32L152RD; STM32L152VD-X; STM32L152VD; STM32L152ZD;
 STM32L162QD; STM32L162RD; STM32L162VD-X; STM32L162VD;
 STM32L162ZD; STM32L151QE; STM32L151VE; STM32L152ZE; STM32L152ZE;
 STM32L152VE;

***** AVR *****

ATMEL: ATmega48A; ATmega48PA; ATmega8; ATmega8515; ATmega8535;
 ATmega88A; ATmega88PA; ATmega16; ATmega162; ATmega163; ATmega165;
 ATmega168A; ATmega168PA; ATmega169; ATmega169P; ATmega32; ATmega325;
 ATmega3250; ATmega328; ATmega328P; ATmega329; ATmega3290; ATmega406;
 ATmega64; ATmega646; ATmega644; ATmega644; ATmega649; ATmega6460;
 ATmega649; ATmega649;

***** C8051 *****

SILICON_LABS: C8051F340;

interface

Program interface

CH2016 has a friendly user interface, menus, toolbars simple and easy to use

- Open: Loads a file into the buffer.
- Save: Save the buffer to a file.
- Fill: The fill buffer specifies the value of the data segment as a value.
- Swap: Swap the adjacent two-byte data in the buffer.

set up

Option

Automatic programming:

- Edit the Autoplot content with Add, Delete, Empty, and double-click the mouse.
- Repetitive operation is supported.

Editing:

- Columns: The number of columns in the data.
- Segment length: The length of the data column packet.
- Display Address: whether to display the address; address display mode.
- Data: How the data is displayed.
- Show ASCII: Whether to display the character area.
- UNICODE: Whether or not UNICODE characters are displayed (available in ASCII check).
- Foreground color: The color of each area font.
- Background color: The background color of each area.
- Default: Restores the settings on this page to their default values.

Rolling code

Scroll code setting interface is as follows:

- The setting interface will change according to the chip selection.
- Supports all four encodings Simple, Normal, Secure XOR, Secure Decrypt.
- The internal 24-byte data is completely self-modifying to meet all setup requirements.
- The scrolling chip is a "write-only" chip, so the CH2016 only provides a "write" function.
- The write data is verified immediately after a single write and the result is given.

Pin configuration

Pin configuration interface is as follows:

- View the pin configuration of the current chip.
- It is recommended to check whether the pin configuration is correct before replacing the chip.

Device Information

The device information interface is as follows:

- Device Model: Displays the current device model.
- Device Version: Displays the current device firmware version.

Language settings

- The CH2016 supports multiple languages (up to 1000 national languages).
- CH2016 provides English, Simplified Chinese, and Traditional Chinese by default.
- The user can customize or add languages according to their own needs.

Custom language:

- Open the corresponding language file located in the Language folder of the CH2016 installation directory.
- Modify the text.
- Save and restart the CH2016 software.

Add language:

- Access the Language folder of the CH2016 installation directory.
- Copy any existing language file and rename it.

- Edit the new language file.
- Set the Language value in the [Setting] section of the new language file to the newly added language name.

operating

Automatic programming

- Auto-complete "erase", "write", "verify", "read" and other combinations of operations.
- Specific operation combinations can be modified via the "Options".

Erase

- Erase chip internal data (set).
- Some SPI FLASH chips must be erased before writing data.
- When a chip that does not support erase is selected, the Erase option is disabled.

Write

- Write data from the buffer to the chip.
- Some SPI FLASH chips must be erased before writing data.

Erase

- Read the chip data into the buffer.
- When a chip that does not support reading (HCS series) is selected, the Readout option is disabled.

check

- Compare chips and buffers for the same data.
- When a chip (HCS series) that does not support the verify operation is selected, the "Verify" option is disabled.

filling

Fill the interface as follows:

- The fill buffer specifies that the data segment has a value.
- The CH2016 fill operation has the function of automatically calculating the start address and length.
- No data is selected: the address is 0, and the length is automatically filled in the buffer length.
- If the data is selected: The address is the start of the selected data, and the length is the length of the selected data.

Positioning

Positioning interface is as follows:

- Destination Address: Address to be located.
- Current address: The current cursor location.
- Click the "Positioning" button to jump to the destination address.
- Click the "Cancel" button to cancel and close the dialog box.

Offline Use the main interface

CH2016 has a friendly user interface, the main interface is as follows:

- 1: Time display.
- 2: chip placement detection.
- 3: Program serial number (not displayed when not on).
- 4: USB is connected.
- 5: USB powered display.
- 6: Chip name.
- 7: The chip vendor.
- 8: Blank: Manual ▶: Auto ◀: Burner table.
- 9: Operation steps (in the direction of the arrow, followed by the inverse of the corresponding operation).
- 10: Write the file name.
- 11: Counts successfully (press "Up" and "Down" keys simultaneously to clear).
- 12: Fail count (press "Left" and "Right" keys simultaneously to clear).

Press "OK" to start the programming process as follows:

Successful recording: buzzer sound, the success of count flashing;

Burning failed: buzzer sound twice, failure count flashing.

Press the "FN" key to enter the menu item.

Press and hold the "FN" key for 3 seconds to lock or unlock the keypad ("OK" key is not locked).

Menu item

The menu is displayed as follows:

Direction key to select the menu, "OK" key to enter the selected item, "FN" to return to the main interface.

F1: chip identification

The interface displays as follows:

- Chip Select: Select the chip manually.
- Chip Identification: Automatically detects the chip (displays the recognition result for confirmation).
- Forced identification: Forces the identification of the chip (all chip identification is supported, but the data inside the chip may be lost).
- Chip configuration: Some specific chip configuration items.

Direction key to select the menu, "OK" key to enter the selected item, "FN" to return to the menu item.

F2: Operation setting

The interface displays as follows:

- Perform the specified operation in the direction of the arrow.
- Up to 6 operations can be specified.

- ON: Automatic programming (programming is automatically performed when chip-ready is detected).
- OFF: Manual programming (press "OK" to execute the programming process).

Left and right keys to select the step, up and down keys to select the function, "OK" to save and return, "FN" to cancel and return to the menu item.

F3: File setting

The interface displays as follows:

- Open File: Select the file to be burned.
- Read the file: read the chip data and save it (set the correct chip model in advance).
- Delete file: Deletes the specified file.

Direction key to select the menu, "OK" key to enter the selected item, "FN" to return to the menu item.

F4: Serial number setting

The interface displays as follows:

- Status: Whether to enable the serial number function.
- Bytes: Number of occupied bytes.
- Size: The number in the memory storage.
- Address: The position of the serial number in memory.
- Value: Sequence number to be written.

Direction key to select the menu and input data, "OK" to save and return, "FN" to cancel and return to the menu item.

F5: Project setting

The interface displays as follows:

- Open Project: Opens an existing project.
- Save Project: Save the current settings (chip, operation, file, serial number) to the current project.
- Save As: Saves the current settings (chip, operation, file, serial number) to the new project.
- Delete Project: Deletes the specified project.

Direction key to select the menu, "OK" key to enter the selected item, "FN" to return to the menu item.

F6: Chip copy

The interface displays as follows:

- Automatic identification of chip types.
- Automatic identification of chip capacity.
- Copying starts automatically.
- The progress of the copy is visible at a glance.

Place the chip (below the release of the master, put a blank piece on top) and press the locking seat, automatically identify the chip model and start copying.

"FN" to return to the main interface.

F7: Card reader

The interface displays as follows:

- 1, 2: Connection status display.

Insert the computer to display the removable disk.

Any key to return to the main interface.

F8: Virtual serial port

The interface displays as follows:

- 1, 2: Connection status display.
- 3, 4: Pin definition display.
- 5, 6: Communication status display.

VCC output voltage 5V, can be inserted into the computer to display the virtual serial port (need to install the virtual serial port driver).

Any key to return to the main interface.

F9: Language setting

The interface displays as follows:

- Multi-language support (unlimited number).
- Use Notepad to modify and add languages.

Enter the "TF card \ System \ Language" directory to edit, add, delete the language.

Use the arrow keys to select the language, "OK" to save and return, "FN" to cancel and return to the menu item.

F10: Date setting

The interface displays as follows:

- The date range is 2000-2099.
- Automatically calculate weekdays.

ON / OFF Indicates whether or not the date is displayed on the main screen.

Left and right keys to select the modified items, up and down keys to adjust the value, "OK" to save and return, "FN" to cancel and return to the menu item.

F11: File browsing

The interface displays as follows:

- Supports browsing directories and files with all paths in ASCII characters.
- View the file properties.
- Delete Files.
- View a text file (*.TXT).
- Play media files (*.VIDEO) (refer to media conversion).

Up and down keys to select files and directories, left or right key to exit or enter the directory.

"OK" Displays the File menu ("Open File", "File Properties", "Delete File").

"FN" returns the menu item.

F12: Other options

The interface displays as follows:

- 1: Backlight brightness setting.
- 2: Backlight time setting (time scale is shown in the table below).
- 3: Auto power off time setting (time scale is shown in the table below).
- 4: Key sound (ON / OFF / PRO).

Display - 20s 1m - 1m 3m - 3m 10m - 10m

Time Unlimited 20 seconds 50 seconds 1 minute 2 minutes 50 seconds 3 minutes 9 minutes 50 seconds 10 minutes

Up and down keys to select items, left and right keys to adjust parameters, "OK" to save and return, "FN" to cancel and return to the menu item.

F13: About

The interface displays as follows:

- 1: Device 10-digit serial number (globally unique).
- 2: Device version.
- 3: Device supply voltage.
- 4: Main chip internal temperature.

"OK" to update the voltage, temperature display, "FN" to return to the menu item.

Technical Support

common problem

1. Failed to write data

(1) Check the chip model and pin configuration is correct before writing data.

(2) part of the SPI FLASH chip, write data must be erased before.

(3) The memory chip may be damaged.

(4) programmer exception, upgrade the latest version of the software and firmware.

contact us

contact us

If you encounter problems in the use of software or you have any good suggestions, please contact us through the following ways:

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619081391@qq.com

By QQ:

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