



V1.36 Original Scorpio-LK Orange5 Key Programming Device With Full Cables & Adapters User Manual



SCAN ME



Orange 5 Orange5 Key Programmer Is a professional general purpose programming device for memory and microcontrollers. Unique feature of the current series programmers is built-in macrolanguage for writing down protocols, which gives fast and easy capability to add new types of ICs, precisely meeting manufacturers' requirements to read/write algorithms.

V1.36 Original Scorpio-LK Orange5 Key Programming Device Hardware Features:

- 1 - Universal easy to plug panel ZIF16 for EEPROMs
- 2 - Control of contacts in the sockets
- 3 - Two expansions sockets (MT & SE)
- 4 - Protection against overcurrent
- 5 - Overload voltage protection
- 6 - Three 3 adjustable voltage and current control: Voltage of power supply (2.0...5.0V), programming voltage (2.0...21.0V), additional static 10V for microcontrollers.
- 7 - High-speed bidirectional pin drivers with adjustable voltage (2.0...5.0V)
- 8 - Wave cycle generator with frequency (up to 24 Mhz) and out voltage(2.0...5.0V) adjustment
- 9 - Capability of functional emulation of class CDC USB devices
- 10 - Built-in 32-bit virtual machine
- 11 - Supported interface: I2C, SPI, MicroWire, JTAG, UART, BDM, ISO7816, K-LINE (via adapter), CAN (via adapter)





Orange5 Programmer Software Download and installation Guide:

Download [the Orange5 Programmer latest software](#)

- 1 - Extract the software from orange5.rar in any location on your PC
 - 2 - Open Windows device manager
 - 3 - Connect Orange-5 to PC
 - 4 - Find Orange-5 in device manager then right click properties ->Driver->Update driver
 - 5 - Navigate to driver location (where you extracted orange5.rar) there is folder Driver [select subfolder X64 if your OS is 64bit]
 - 6 - Install the driver
 - 7 - Disconnect and reconnect the programmer in order to allow it to reinitialize.
 - 8 - Run the program (orange.exe) [depending on the USER ACCOUNT CONTROL settings of your Windows you might need to run the software as administrator] and the programmer should initialize properly and run.
- *If you get message "Hardware not detected", but the Mode LED on top of Orange-5 is solid blue and Orange-5 is shown normally in device manager , check your USB ports/cable (if overloaded/bad contact/etc the programmer won't run)
- *If the MODE Led is blinking driver is not installed Disconnect and reconnect again the programmer then go back to step 2.

System Requirements:

32-bit (x86) or 64-bit (x64) Windows operated PC

Supported XP, Vista for 32-bit & 7, 8, 10 for 64-bit

USB 2.0 Cable: A-Male to B-Male Cord





Orange5 Programmer

Supported Chips List



SCAN ME



Orange5 Orange 5 Programmer Supported Chips List:

Immo HPX 9V0

PCF

PCF7941 Reset

> Alfa Romeo

BSI

147

> Audi

BCM2

Ver.1 uPD70F3239

Ver.1 uPD70F3380

Ver.2 uPD70F3380

Ver.1 uPD70F3634

Dash

A2 VDO crypto 93C86

A3 UKNSI 93C56

A3 VDO '97/99 93C66

A3 VDO crypto 93C86

A3 MM 912DG128

A4 UKNSI 0012-003 93C56

A4 UKNSI 0014-001 93C56

A4 UKNSI 0016-001 93C56

A4 UKNSI '97/98 93C56

A4 VDO '97/99 93C66

A4 VDO '99/01 93C86

A4 MM 912DG128

A6 UKNSI 0012-001 93C56

A6 UKNSI 0014-001 93C56

A6 UKNSI 0016-001 93C56

A6 VDO '97/99 93C66

A6 VDO '99/01 93C86

A6 VDO crypto 93C86

A6 MM 912DG128

S3/S6 MM 912DG128

TT MM 912DG128

Immo

'94/97 4A0 953 234 93C46

Delphi 8D0 953 234 93C46

ECU

'00/04 ECU EDC15 24C04

A3 1.8T 0261204678 24C02

A4 1.8T 0261204778 24C02

A4 '02 8E0 909 xxx 95040

ELV

MC68HC908GR16A[4L35K]

MC68HC908GR16A[0M76Z]



> BMW

Dash

Dash with M35080

Immo

EWS-3 HC11EA9 clips [0D46J]

EWS-3 HC11EA9 wires [0D46J]

EWS-3 HC11EA9 adap [2D47J]

EWS-3+ HC11EA9 clip [0D46J]

EWS-3+ HC11EA9 adap [2D47J]

> Chery

All Chery with 0L72A

All Chery with 0L59X

> Chevrolet

Immo

Captiva MC9S08DZ60 [3M05C]

> Chrysler

Immo

SKIM immobox 24C02

Ram uPD70F3626

> Citroen

BSI

Berlingo 03/06 BSI v1 95160

Berlingo 03/06 BSI v2 95160

Berlingo 03/09 BSI v3 95160

C2 '03/04 BSI 95160

C3 '02/04 BSI v1 95160

C3 '02/04 BSI v2 95160

C5 '01/04 BSI 912DG128

C5 '02/04 BSI 95160

C8 '03/04 BSI 912DG128

Picasso '03/04 BSI 95160

Xsara II '01/03 BSI 95040

Immo

Berlingo Valeo 93C46

Jumper '99/06 Delphi 93C56

Jumpy 705E6 [F82B]

Relay Delphi 93C56

ECU

Xsara ECU EDC15C2 95P08

> DAF

Immo

MC68HC908AZ60 [2J74Y]

MC68HC08AZ32A [2L52H]



> Fiat

Automotive K/CAN

IMM 009.10

BSI

Albea 912DG128 [3K91D]

Panda '02 BSI [1L40K]

Stilo 912DG128 [3K91D]

Stilo BSI [1K79X]

Strada BSI [1K79X]

Immo

IMM001.11 [1K59H]

IMM009.01 [1K59H]

IMM009.01 [0L72A]

IMM100.01 [1K59H]

IMM110.01 [1K59H]

Bravo 705E6 [G72G]

Bravo 705E6 Clips [G72G]

Bravo 08AZ32 [1H56A]

Cinquecento '96 93C46

Coupe '96 immobox BOSCH 93C46

Ducato Delphi 93C56

Marea 08AZ32 [1H56A]

Punto 93C46

Punto Delphi 93C66

Scudo 705E6 [F82B]

Palio '09 [0L72A]

Seicento Delphi 93C56

ECU

Scudo '01 JTD EDC15C2 95P08

> Ford

BSI

Focus '03- 9S12XEP768 [5M48H]

Dash

4M5T MC9S12H128[1K78X]

8VT4 MC9S12XHZ256[1M80F]

ECU

Focus '00 ECU 77012

> Gilera

ECU

Fouco 500 [ST10F269]

> Great Wall

Immo

With 0L72A

> Hyundai

ECU

Accent KEFICO ECU M95160

Elantra KEFICO ECU M95160



> **Honda**

Immo

Acord '06 Immo HIS-5 93C46
Legend '07 Immo HIS-5 93C46
Valeo HC05B6 [0F10V]
Valeo HC05B8 [3D33J]
Valeo HC705B16 [0D28J]
KEIHIN 38770-MFJ-D04 93C66

> **Jeep**

Immo

Grand Cherokee 08AZ32 0J66D
Grand Cherokee '13 uPD70F3626
Grand Cherokee '09 uPD70F3629
SKIM immobox 24C02

> **KIA**

Immo

'99/01 Immobox 93C46
ECU
Cerato KEFICO ECU M95160

> **Lancia**

Immo

Kappa immobox BOSCH 93C46

> **Mahindra**

Automotive K/CAN

XYLO

Mazda

Immo

Lucas 19AS HC05B8 [3D33J]
SKLC
2 '09- MC9S12XDT384
Demio '09- MC9S12XDT384
ECU
6 ECU 93A66

> **Mercedes Benz**

Immo

Sprinter 05X16 [0D62J]
Sprinter/Vito 08AZ32 [0J66D]
Sprinter/Vito 08AZ32A [L52H]
EZS
W203 908AZ60 [1J35D]
W203 908AZ60 [1J35D]
W203 908AZ60 [4J74Y]
W220 908AZ60 [1J35D&4J74Y]
W639 Vito '03/up [1L02M]
W639 Vito '03/up [3K85K]
W639 Vito '03/up [4J74Y]



> Nissan

Immo
Immobox with TMS370Cx2x
BSI
Skyline [1L15Y] Wires
Automotive K/CAN
NATS-2 (Motorola)
NATS-2+ 5WK4 652
NATS-4 (TMS)
NATS-5 (TMS)
NATS-5 (ST)
NATS-5 (TMS in 5WK48645)

> Opel

Immo
Immo HC05B6 [0F10V]
Immo TMS370C002 (PLCC28)
Immo 5WK4 7631[0L72A]

> Peugeot

BSI
307 '01/03 BSI 912DG128
307 '01/03 BSI 912DG128A
307 '02/05 BSI 95160
807 '04/05 BSI 912DG128
807 '05/06 BSI 95128
Immo
Boxer Delphi 93C56
106 Valeo 93C46,
Partner Valeo 93C46

> Piaggio

Immo
Vespa '95 AEC302C 705E6 [0F82B]

> Renault

Immo
Clio-I immobox Sagem 93C46
Clio-II '98 BMT Sagem 93C46
Kangoo immobox Sagem 93C46
Master '99-01 immobox Sagem 93C46
UCH
Clio III Sport [3L91N]
Megane [4L91N]
IR key
Clio key with MC68HC05K3

> Rover

Immo
Valeo HC05B6 [0F10V]
Valeo HC05B8 [3D33J]
Valeo HC705B16 [0D28J]
EWS 9S12DG128 [3L40K]



> Seat

Dash

Cordoba VDO '99/01 93C86
Cordoba VDO '03/05 93C86
Cordoba MM 9S12H256
Ibiza VDO '00 93C66
Ibiza VDO '99/01 93C86
Ibiza VDO '03/04 93C86
Ibiza VDO crypto 93C86
Ibiza MM 9S12H256
Ibiza 6J0 920 801A 24C32
Ibiza 6J0 920 802H 24C64
Ibiza 6J0 920 804L 24C64
Leon VDO v.1 93C86
Leon VDO v.2 93C86
Leon VDO v.3 93C86
Leon VDO v.4 93C86
Toledo VDO v.1 93C86
Toledo VDO v.2 93C86
Toledo VDO v.3 93C86
ECU
EDC15 '00/04 24C04
EDC16U1 '04/06 95320
EDC16U31 '03/05 95320

> Skoda

Dash

Fabia VDO '00/01 v1 93C86
Fabia VDO '00/01 v2 93C86
Fabia VDO '04 93C86
Fabia VDO crypto 93C86
Felicia VDO 93C66,
Felicia VDO '01/02 93C86
Oktavia VDO 93C66
Oktavia VDO '00/05 93C86
Oktavia VDO crypto 93C86
Roomster VDO crypto 93C86
SuperB VDO '02/04 93C86
SuperB VDO crypto 93C86
ECU
'00/04 ECU EDC15 24C04
'05/06 ECU EDC16U1 95320

> SsangYong

Immo

87110-0930 MSP430F1232
87110-0910 MSP430F1232
MSP430F1232 (universal)
VDO MC68HC05B16 [0D60J]

> Suzuki

Immo

Baleno '99- 93C66
Swift '99- 93C66
Alto 24C01
Ignis 24C01
Jimny 24C01
SX4 [0L72A]



> Toyota

Immo

Immobox 89780-12070 93C66

Immobox 89780-20010 24C04

Immobox 89780-42030 93C66

ECU

ECU 89661-50440 93C56

> VW

BCM2

uPD70F3634

VW Beetle dash

Beetle 912D60

Beetle '03/05 912DG128

Beetle 03/05 912DG128C L05H

Beetle 05/06 9S12H256 K78X

VW Beetle ECU

Beetle EDC16U31 95320

VW Bora dash

Bora MOT'99/00 24C02

Bora VDO 93C66

Bora VDO '99/00 93C86

Bora VDO '01 93C86

Bora VDO '01/03 93C86

Bora VDO '03/05 93C86

VW Caravelle ECU

T5 '04/06 EDC16U1 95320

T5 '04/06 EDC16U31 95320

VW Fox dash

Fox MM 9S12H256

VW Golf dash

G4 MOT 24C02

G4 MOT '01/03 24C08

G4 BOSCH '02/03 24C08

G4 VDO 93C66

G4 VDO '99/00 93C86

G4 VDO '01 93C86

G4 VDO '01/03 93C86

G4 VDO '02/03 93C86,

G4 MOT addr.line 24C02

G6 5K0 920 870C 24C32

G6 5K0 920 872A 24C64

G6 5K0 920 873A 24C64

VW Jetta dash

Jetta VDO '00 93C66

Jetta VDO '99/01 93C86

Jetta VDO '01 93C86

VW Passat dash

Passat B5 MM HC11KG4

B5 VDO 93C66

B5 VDO '99/01 93C86

B6 VDO '01/02 93C86

B6 VDO '03/04 93C86

MOT addr. line 24C02

VW Pointer dash

Pointer '05/06 93C66

VW Polo dash

Polo VDO '01/02 93C86

Polo VDO '01/04 93C86

Polo VDO crypto 93C86



VW Polo ECU
Polo '04 ECU 1.4 MM 95320
VW Sharan ECU
Sharan '00/04 EDC15 24C04
Sharan 06/07 EDC16U31 95320
VW Touran ECU
ECU EDC16U34 '06/07 95320
VW Transporter dash
T4 VDO '01/03 93C86
T5 VDO '03/07 93C86
VW Transporter ECU
'00/04 ECU EDC15 24C04
'03/06 ECU EDC16U1 95320
'03/07 ECU EDC16U31 95320
Immo
Fox '08 Brazil 93LC56
Immo HC05B6 [0F10V]
Immo HC05B6 [0B91T]
Immo HC05B8 [3D33J]
Immo TMS370C002 (PLCC28)
ECU
00/04 ECU EDC15
03/06 ECU EDC16U1
03/07 ECU EDC16U31
06/07 ECU EDC16U34

> EEPROM

I2C
24C01
24C02
24C04
24C08
24C16
24C32
24C65
24C128
24C256
24C512
24LC21

> MicroWire

93C06
93S06
93C46
93C46
93S46
93C56
93C56
93S56
93C66
93C66
93S66
93C76 WP0
93C76 WP1
93C76 WP0
93C76 WP1
93C86 WP0
93C86 WP1
93C86 WP0
93C86 WP1



> **4Wire**

59C11
59C22
64C10
64C20
64C40
64C80
SPI
25C010
25C020
25C040
25C080
25C160
25C320
25C650
25C128
25C256

> **Adesto**

AT25SF041

> **AKM**

AK6410
AK6420
AK6440
AK6480
AK93C55
AK93C65

> **Altera**

EPCS1
EPCS4
EPCS16
EPCS16
EPCS128

> **Amic**

A25L512
A25L40
A25L080
A25L80
A25L016
A25L16
A25L032
A25LQ16
A25LQ32

> **Atmel**

AT17C65 FPGA configurators
AT17C128
AT17C256
AT17LV65
AT17LV128
AT17LV256
AT24C01
AT24C01A
AT24C02
AT24C04
AT24C08
AT24RF08



AT24C16
AT24C164
AT24C21
AT24C32
AT24C64
AT24C128
AT24C256
AT24C512
AT24C1024
AT25010(8)
AT25020(8)
AT25040(8)
AT25080
AT25160
AT25320
AT25640
AT25128
AT25256
AT25DF021
AT25DF041
AT25DF081
AT25DF161
AT25DF321
AT25F512
AT25F1024
AT25F2048
AT26DF081
AT26DF161
AT26DF321
AT26F004
AT34C02
AT45D011 * Data Flash
AT45DB011 *
AT45D021 *
AT45DB021 *
AT45D041 *
AT45DB041 *
AT45D081 *
AT45DB081 *
AT45DB161 *
AT59C11
AT93C46
AT93C56
AT93C56A
AT93C56B
AT93C57
AT93C66
AT93C66A
AT93C66B
AT93C86

> BOSCH

B34AB
B43AB
B46AJ
B49AJ
B52AP
B54AH
B81AB
B58252

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B58253
B58256
B58258
B58379
B58380
B58608
B58813

> **Catalyst**

CAT1023
CAT1024
CAT1025
CAT24WC08
CAT24FC32
CAT24WC32
CAT24C44
CAT24WC64
CAT25C32
CAT34C02
CAT35C102
CAT35C102
CAT35C104
CAT35C104
CAT59C11
CAT64LC10
CAT64LC20
CAT64LC40
CAT93C46
CAT93C56
CAT93C57
CAT93C57
CAT93C66
CAT93C76
CAT93C86

> **Chingis**

Pm25LD512
Pm25LD010
Pm25LD020
PM25LV512
PM25LV010
PM25LV020
PM25LV040
PM25W020

> **Dallas/Maxim**

DS1307
DS18B20
DS18B20U (uSOP)
DS18B20Z (SOIC)
DS1973
DS1990
RW1990
DS1992
DS1993
DS2401
DS2430
DS2432
DS2433
DS2502
DS Id

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KEYS & LOCKS TR.
www.gskeyae.com



> EON

EN25B05
EN25B05T
EN25F10
EN25P10
EN25F20
EN25B40
EN25B40T
EN25F40
EN25F40 + OTP
EN25S40
EN25S40 + OTP
EN25B80
EN25B80T
EN25D80
EN25D80 + OTP
EN25F80
EN25F80 + OTP
EN25T80
EN25T80 + OTP
EN25B16
EN25F16
EN25F16 + OTP
EN25T16
EN25T16 + OTP
EN25QH16
EN25QH16 + OTP
EN25F32
EN25F32 + OTP
EN25M32
EN25Q32
EN25Q32 + OTP
EN25B64 + OTP
EN25Q64
EN25Q64 + OTP

> ESMT

F25L004A
F25L08PA
F25L016A

> EXEL

XLS24C02
XLS24C04
XL93LC06
XL93LC46A
XL93LC46B
XLS93LC46
XL93LC56
XL93LC56A
XL93LC56B

> Fairchild

FM24C02
FM24C03
FM24C04
FM24C08
FM24C09
FM24C16
FM24C17
FM93C66



FM93C66A
NM24C02
NM24C03
NM24C04
NM24C05
NM24C08
NM24C09
NM24C16
NM24C17
NM24U17
NM24C32
NM24C65
NM34C02
NM34W02
NM93C86

> **Ford**

7002MN010
77005MC
77005PC
77007MC
77014

> **Fujitsu**

MB85RC04
MB85RC16

> **GI**

BAW574252
BAW658049
ER59256
ER59C11
ER1400
ER1450
PCD85C82

> **GigaDevice**

GD25Q40
GD25Q80
GD25Q16
GD25Q32

> **Grundig**

GRN-001
GRN-002
GRN-005
GRS-003
GRX-008

> **HOLTEK**

HT93C46
HT93C66

> **Hynix**

H27U2G8F ECC
HY27UF081G
HY27UF081G ECC
HY27UF084G 512MB, 4 pages
HY27UF084G ECC 512MB, 4 pages
HY27UH088G 1GB – 8 pages
HY27UH088G ECC 1GB – 8 pages



HY27US08121
HY27US08121 ECC
HY27US08281
HY27US08281 ECC
HY27US08561
HY27US08561 ECC
HY27UT084G 512MB, 4 pages
HY27UT084G ECC 512MB, 4 pages
HY27UT088G 1024MB, 8 pages
HY27UT088G ECC 1024MB, 8 pages

> **ITT**

NVM3060
MDA2061
MDA2062

> **KHIC**

KH25L4005
KH25L8036

> **Macronix**

MX25L512
MX25L1005
MX25L2005
MX25L2006
MX25L2025
MX25L2026
MX25L4005
MX25L4006
MX25L8005
MX25L8006
MX25L1605
MX25L1606
MX25L1608
MX25L1635
MX25L1636
MX25L3205
MX25L3205D
MX25L3205D + OTP
MX25L3206
MX25L6405D
MX25L6405D + OTP
MX25L6406
MX25L6445
MX25L6445 + OTP
MX25L12805D *
MX25L12835E
MX25L12835E + OTP
MX25L12845E
MX25L12845E + OTP
MX25L25635F

> **MicroChip**

24LC00
24LC01B
24AA02
24C02
24LC02
24AA04
24C04
24LC04



24AA08
24LC08
24AA16
24LC16
24AA164
24LC164
24LC21
24AA32
24C32
24LC32
24LC64
24AA65
24LC65
24AA128
24LC128
24AA256
24LC256
24AA512
24LC512
24AA1026
24FC1026
24LC1026
25AA040
25AA080
25AA160
25C040
25C080
25C160
25LC040
25LC080
25LC160
25LC320
25LC640
25AA1024
25LC1024
ER5911
93C06
93AA46
93C46
93LC46
93LC46A
93LC46B
93AA56
93AA56A
93AA56B
93AA56C
93C56
93C56A
93C56B
93C56C
93LC56
93LC56A
93LC56B
93LC56C
93AA66
93AA66A
93AA66B
93AA66C
93C66
93C66A
93C66B

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93LC66C
93AA76
93C76
93LC76
93AA86
93C86
93LC86
HCS200
HCS300
MCP79410
PCD8572

> **Micron**

M25PE80
M25PX16
M25PX32
W25PX64
N25Q016Ax1
N25Q032Ax1
N25Q032Ax3
N25Q064Ax1
N25Q064Ax3

> **Mitsubishi**

M58653P *
M58655P *
M58657P *
M58658P *
M6M80011
M6M80021
M6M80041

> **Motorola**

MCM2814

> **NEC**

uPD6252
uPD6253
uPD6254

> **NSC**

NM93C06
NM93C13
NM93C14
NM93C46
NM93C56
NM93C66
NM93CS56
NM93CS66
NMC9306
NMC9307
NMC9314
NMC9345
NMC9346
NMC93C56
NMC93C66
NMC93CS06
NMC93CS46



> Numonyx

M25P05A
M25P16
M25P128
M25PE10
M25PE20
M25PE40
M25PE80
M25PX16
M25PX32
W25PX64
N25Q016Ax1
N25Q032Ax1
N25Q032Ax3
N25Q064Ax1
N25Q064Ax3
N25Q128Ax1
N25Q128Ax3
QB25F016S33B

> OKI

MSM16811
MSM16812
MSM16851
MSM16911
MSM16951

> ON Semi

CAT1023
CAT1024
CAT1025
CAT24WC08
CAT24FC32
CAT24C44
CAT24C512
CAT25C32
CAT34C02
CAT35C102
CAT35C102
CAT35C104
CAT35C104
CAT59C11
CAT64LC10
CAT64LC20
CAT64LC40
CAT93C46
CAT93C56
CAT93C57
CAT93C57
CAT93C66
CAT93C76
CAT93C86

> PCT

PCT25VF032B

> Philips

PCA8581
PCD8582
PCF8582
PCF8594
PCF8598
PCF85116



> Pioneer

PDG011
PDH001
PDH004

> PMC

Pm25LD512
Pm25LD010
Pm25LD020
PM25LV512
PM25LV010
PM25LV020
PM25LV040
PM25W020

> Ramtron

FM24C04
FM24CL04
FM24C16
FM24CL16
FM24C64
FM24CL64
FM24C256
FM24CL256
FM24C512
FM25160
FM25C160
FM25L16
FM25L256

> Rohm

BR24C01
BR24C02
BR24C32
BR24C65
BR9010
BR9020
BR9021
BR9040
BR9080
BR9016
BR93H56
BR93L56
BR93LC56
BR93RL56
BR93H66
BR93L66
BR93LC66
BR93H76
BR93H86

> Samsung

K9F1208U
K9F1208U ECC
K9F1G08U 128MB
K9F1G08U ECC 128MB
K9F2808U
K9F2808U ECC
K9F2G08U 256MB – 2 pages
K9F2G08U ECC 256MB – 2 pages
K9F4008
K9F4G08U 512MB – 4 pages
K9F4G08U ECC 512MB – 4 pages



K9F5608U 32MB
K9F5608U ECC 32MB
K9F6408U 8MB
K9F6408U ECC 8MB
K9G8G08U 1024MB, 8 pages
K9G8G08U ECC 1024MB, 8 pages
K9K1G08U
K9K1G08U ECC
K9K4G08U 512MB, 4 pages
K9K4G08U ECC 512MB, 4 pages
K9K8G08U 1024MB, 8 pages
K9K8G08U ECC 1024MB, 8 pages
K9LAG08U 2048MB, 16 pages
K9LAG08U ECC 2048MB, 16 pages
KM29W040
KM93C06
KM93C07
KM93C46
KS24A021
KS24A041
KS24L161
S524A40X21
CLP300(Printer)

> **Seiko**

S-2100R
S-24C01
S-24C02
S-24C04
S-24C08
S-24CS16
S-2430
S-2444
S-2445
S-24CS08
S-2900A
S-29130A
S-29131A
S-2914
S-29153
S-29190A
S-29220A
S-29255A
S-29290A
S-29230A
S-29330A
S-29355A
S-29390A
S-29430
S-29530
S-29590
S-29630
S-29690
S-93C46
S-93C56
S-93C66
S-93C76
S-93C86

> **Siemens**

SDA2506
SDE2506
SDA2516
SDA2526
SDA2546
SDA2586



> Sony

CXK1011
CXK1012
CXK1013
CXK1024

> Spansion

S25FL001
S25FL002
S25FL008
S25FL016
S25FL032
S25FL064A
S25FL064P
S25FL128
S25FL256S
S99-50084

> SST

SST25LF020A
SST25LF040A
SST25VF512
SST25VF010
SST25VF020
SST25VF040
SST25VF080
SST25VF016
SST25VF016B
SST25VF032B

> ST

M24C01
M24C02
M24C04
M24C08
M24C16
M24C32
M24C64
M24C128
M24C256
M25P05 M25P20.hpl
M25P05A M25P20.hpl
M25P10 M25P20.hpl
M25P20
M25P28
M25P40 M25P20.hpl
M25P80 M25P20.hpl
M25P16
M25P128
M25PE10
M25PE20
M25PE40
M25PE80
M25PX16
M25PX32
W25PX64
M34C02
M34F04
M35080
M35160
M35560
M45PE20
M8571
M93C46
M93CS46
M93S46



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M93C56
M93CS56
M93S56
M93C66
M93CS66
M93S66
M93C76
M93C86
M95020
M95040
M95080
M95160
M95160-R
M95160-V
M95160-W
M95320
M95320-R
M95320-V
M95320-W
M95640
M95640-R
M95640-V
M95640-W
M95128
M95128-S
M95128-V
M95128-W
M95256
M95256-S
M95256-V
M95256-W
M95M01-R
M95M02-DR
NAND128
NAND128 ECC
NAND256
NAND256 ECC
ST24C01
ST24C02
ST24W02
ST24C04
ST24W04
ST24C08
ST24C16
ST24E16
ST24E32
ST24W16
ST25C01
ST25C02
ST25C04
ST25C08
ST25C16
ST25E16
ST25E32
ST77014
ST93C46
ST95010
ST95011
ST95020
ST95021
ST95022
ST95040
ST95041
ST95080
ST95160
ST95320
ST95640
ST95128
ST95P02
ST95P04
ST95P08

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> **Toshiba**

TC89101
TC89102
TC89121
TC97101

> **Winbond**

W25D80
W25P10
W25P20
W25P40
W25P80
W25P16
W25P32
W25Q80
W25Q16
W25Q32
W25Q64
W25Q128
W25Q256
W25X10
W25X20
W25X40
W25X80
W25X16
W25X32
W25X64

> **Xicor**

X1226
X24C00
X24C01
X2402
X24C02
X24C04
X24C08
X24C16
X24164
X24325
X24645
X2430
X2444
X25160
X5043
X5045

> **xUSSR**

1084PP1 *
1506PP1 *
1609XP1
1609XP21 * no need 20V
1566PP1
1568PP1
1568PP2
1628PP1 *
1628PP2 *
1628PP3
5509PP02
558XP3

> **YMC**

Y25F05

> **MCU**

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> Atmel

AT89C1051 *
AT89C2051 *
AT89C4051 *
AT89S51 *
AT89S52 *
AT89S53 *
AT89S8252 *
Attiny4
Attiny5
Attiny9
Attiny10
ATtiny11 HV
ATtiny12
ATtiny12 HV
ATtiny13
ATtiny13 HV
ATtiny15
ATtiny15 HV *
ATtiny24
ATtiny25
ATtiny25 HV
ATtiny26 *
ATtiny261
ATtiny44
ATtiny45
ATtiny45 HV
ATtiny461
ATtiny84
ATtiny85
ATtiny85 HV
ATtiny861
ATtiny2313 *
AT90CAN32
AT90CAN64
AT90CAN128
AT90S1200
AT90S2313
AT90S8515
ATmega103
ATmega103L
ATmega128
ATmega128L
ATmega1280
ATmega1281
ATmega1284A
ATmega1284PA
ATmega16
ATmega16A
ATmega162
ATmega164
ATmega168
ATmega168A
ATmega168PA
ATmega169/L/V
ATmega169P/PV
ATmega2560
ATmega2561
ATmega32 *
ATmega324
ATmega328
ATmega329
ATmega3290



ATmega48
ATmega48A
ATmega48PA
ATmega64 *
ATmega640
ATmega644A
ATmega644PA
ATmega649
ATmega6490
ATmega8
ATmega8A
ATmega8515
ATmega8535
ATmega88
ATmega88A
ATmega88PA
AT91SAM7S64
AT91SAM7S128
AT91SAM7S256

> **Fujitsu**

MB90F038S
MB90F345
MB90F387S
MB90F394H
MB90F395
MB90F438L/LS
MB90F439/S
MB90F455/S
MB90F456/S
MB90F457/S
MB90F462A
MB90F497/G
MB90F498G
MB90F546G/GS
MB90F548GS
MB90F562/B
MB90F568
MB90F591A
MB90F594G
MB90F867ES

> **Infineon**

XC2060M-104F
XC2080-96F
XC2336B-24F
XC2336B-40F
XC2361A-56F
XC2361A-72F
XC2765X-72F
XC2765X-104F

> **MediaTek**

MT1389 ext.FLASH 1Mb
MT1389 ext.FLASH 2Mb
MT1389 ext.FLASH 4Mb

> **MicroChip**

PIC10F200
PIC10F202
PIC10F204
PIC10F206
PIC10F220



- PIC10F222
- PIC12C508
- PIC12C508A
- PIC12C509
- PIC12C509A
- PIC12F508
- PIC12F509
- PIC12F510
- PIC12F609
- PIC12HV609
- PIC12F615
- PIC12HV615
- PIC12F617
- PIC12F629
- PIC12F635
- PIC12F675
- PIC12F683
- PIC12F1822
- PIC16C620
- PIC16C620A
- PIC16C621
- PIC16C621A
- PIC16C622
- PIC16C622A
- PIC16C623
- PIC16C624
- PIC16C625
- PIC16C63
- PIC16C63A
- PIC16C710
- PIC16C711
- PIC16C715
- PIC16C73A
- PIC16C77
- PIC16C84
- PIC16F54
- PIC16F505
- PIC16F526
- PIC16F610
- PIC16F616
- PIC16F627
- PIC16F627A
- PIC16F628
- PIC16F628A
- PIC16F630
- PIC16F631
- PIC16F636
- PIC16F639
- PIC16F648A
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- PIC16F677
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- PIC16F689
- PIC16F690
- PIC16F716
- PIC16F72
- PIC16F722
- PIC16LF722
- PIC16F723
- PIC16LF723

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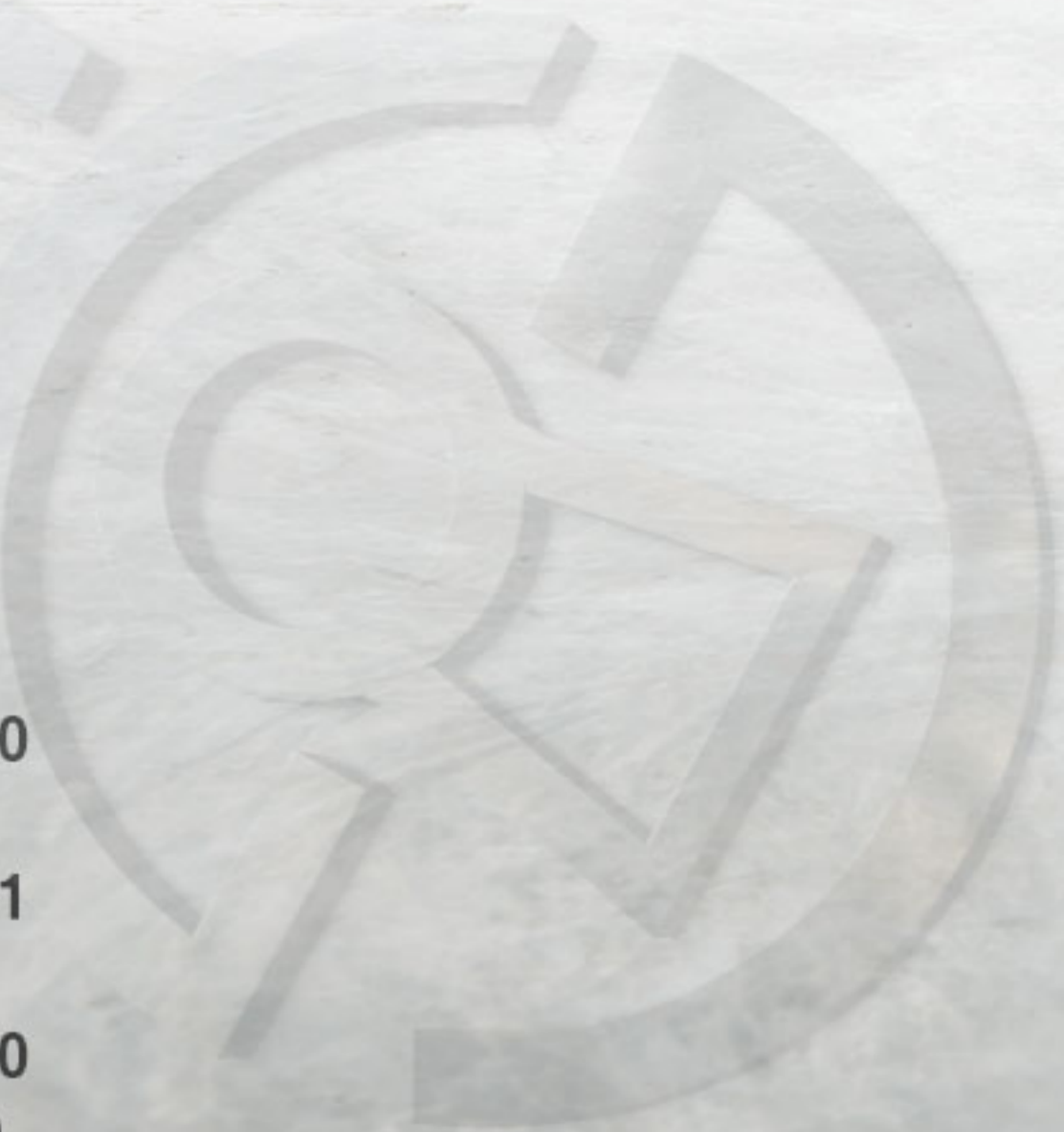
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- PIC16F818
- PIC16F819
- PIC16F83
- PIC16F84
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- PIC16F87
- PIC16LF87
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- PIC16F1829
- PIC16LF1829
- PIC16LF1902
- PIC16LF1903
- PIC16LF1904
- PIC16LF1906
- PIC16LF1907
- PIC16F1933

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PIC16LF1933
PIC16F1934
PIC16LF1934
PIC16F1936
PIC16LF1936
PIC16F1937
PIC16LF1937
PIC16F1938
PIC16LF1938
PIC16F1939
PIC16LF1939
PIC16F1946
PIC16LF1946
PIC16F1947
PIC16LF1947
PIC18F1220
PIC18F1320
PIC18F13K50
PIC18LF13K50
PIC18F14K50
PIC18LF14K50
PIC18F242
PIC18F248
PIC18F252
PIC18F258
PIC18F442
PIC18F452
PIC18F458
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PIC18F2221
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PIC18F24J10
PIC18LF24J10
PIC18F24J11
PIC18LF24J11
PIC18F24J50
PIC18LF24J50
PIC18F24K20
PIC18F2510
PIC18F2515
PIC18F2520
PIC18F2523
PIC18F2525
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PIC18F2553
PIC18F2580
PIC18F2585
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PIC18LF25J11
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PIC18F25K20

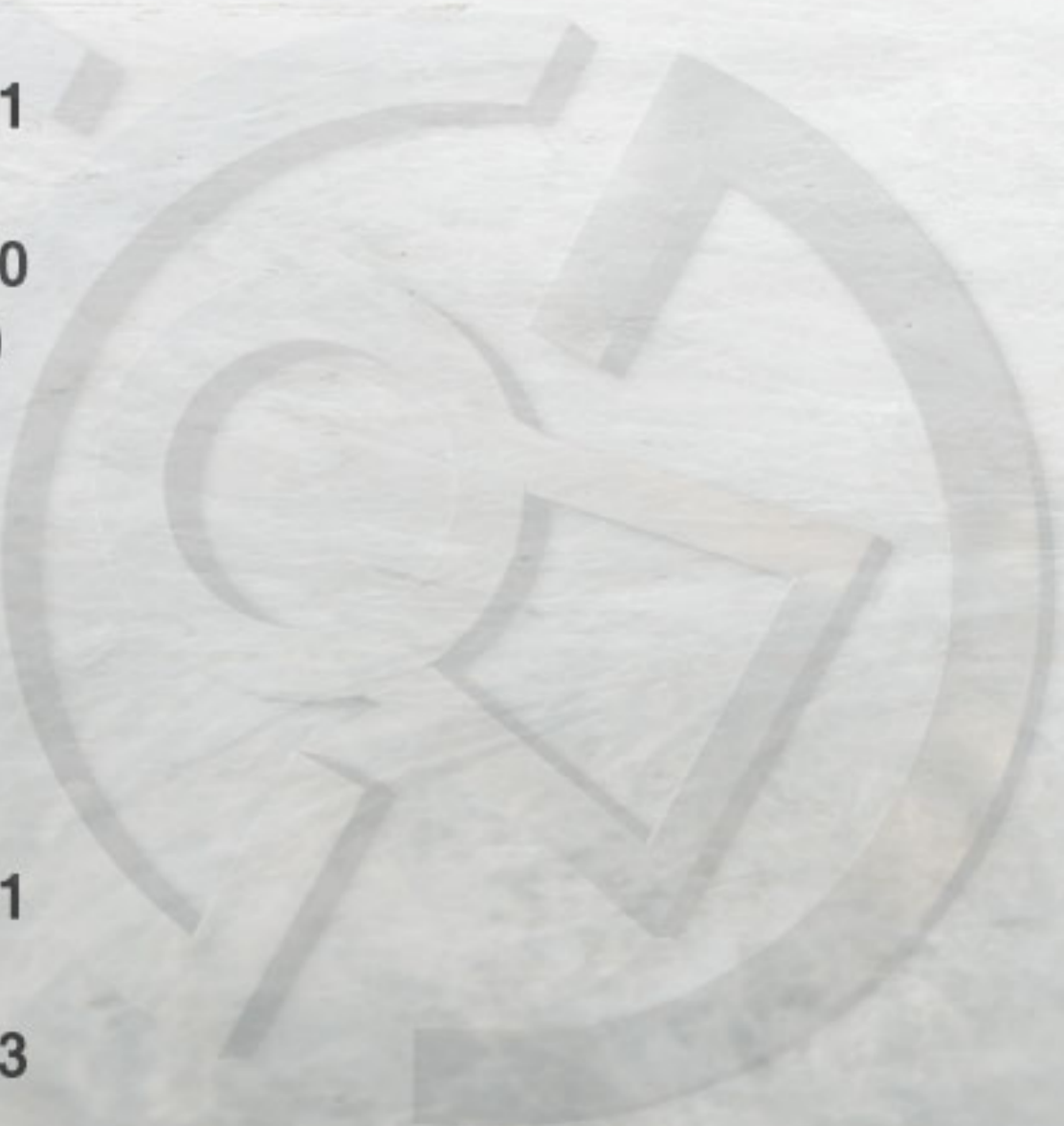
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PIC18F2610
PIC18F2620
PIC18F2680
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PIC18F2685
PIC18F26J11
PIC18LF26J11
PIC18F26J13
PIC18LF26J13
PIC18F26J50
PIC18LF26J50
PIC18F26J53
PIC18LF26J53
PIC18F26K20
PIC18F27J13
PIC18LF27J13
PIC18F27J53
PIC18LF27J53
PIC18F4220
PIC18F4221
PIC18F4320
PIC18F4321
PIC18F43K20
PIC18F4410
PIC18F4420
PIC18F4423
PIC18F4450
PIC18F4455
PIC18F4458
PIC18F4480
PIC18F44J10
PIC18LF44J10
PIC18F44J11
PIC18LF44J11
PIC18F44J50
PIC18LF44J50
PIC18F44K20
PIC18F4510
PIC18F4515
PIC18F4520
PIC18F4523
PIC18F4525
PIC18F4550
PIC18F4553
PIC18F4580
PIC18F4585
PIC18F45J10
PIC18LF45J10
PIC18F45J11
PIC18LF45J11
PIC18F45J50
PIC18LF45J50
PIC18F45K20
PIC18F4610
PIC18F4620
PIC18F4680
PIC18F4682
PIC18F4685
PIC18F46J11
PIC18LF46J11
PIC18F46J13
PIC18LF46J13
PIC18F46J50

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PIC18LF46J50
PIC18F46J53
PIC18LF46J53
PIC18F46K20
PIC18F47J13
PIC18LF47J13
PIC18F47J53
PIC18LF47J53
PIC18F6527
PIC24F08KA101
PIC24F08KA102
PIC24F16KA101
PIC24F16KA102

> **Nordic**

nRF24LU1

> **NSC**

CR16MCS9
CR16MCT9

> **Philips**

P89LPC901
P89LPC902
P89LPC903
P89LPC920
P89LPC921
P89LPC922

> **Renesas R8C**

R5F21112
R5F21113
R5F21114
R5F21244
R5F21245
R5F21246
R5F21247
R5F21254
R5F21255
R5F21256
R5F21257
R5F21258
R5F21262
R5F21264
R5F21265
R5F21266
R5F21272
R5F21274
R5F21275
R5F21276
R5F212BA
R5F212C7
R5F212C8
R5F212CA
R5F212CC
R5F212D7
R5F212D8
R5F212DA
R5F212DC
R5F21357

> **Renesas M16**

M30245FC
M30624FG
R5F3650K



> **Renesas M32**

M30833FJ
M30853FH
M30855FW
M30873FH
M30875FH
M30876FJ
M30878FJ
M30879FK
M30879FL
M3087BFK
M3087BFL

> **Renesas M32R**

M32192F8
M32196F8

> **Renesas R32C**

R5F64213JFB
R5F64524KFD

> **Renesas V850 UART**

uPD70F3230
uPD70F3231
uPD70F3232
uPD70F3233
uPD70F3234
uPD70F3235
uPD70F3236
uPD70F3237
uPD70F3238
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uPD70F3333
uPD70F3334
uPD70F3335
uPD70F3336
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uPD70F3341
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uPD70F3364
uPD70F3365
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uPD70F3367
uPD70F3368
uPD70F3370
uPD70F3371
uPD70F3372

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- uPD70F3373
- uPD70F3374
- uPD70F3375
- uPD70F3376
- uPD70F3377
- uPD70F3378
- uPD70F3379
- uPD70F3380
- uPD70F3381
- uPD70F3382
- uPD70F3383
- uPD70F3384
- uPD70F3385
- uPD70F3402
- uPD70F3403
- uPD70F3421
- uPD70F3422
- uPD70F3423
- uPD70F3424
- uPD70F3425
- uPD70F3426
- uPD70F3427 test
- uPD70F3433(A)
- uPD70F3438
- uPD70F3461GJ(A1)
- uPD70F3464
- uPD70F3465
- uPD70F3466
- uPD70F3469M2(A1)
- uPD70F3470
- uPD70F3471
- uPD70F3472
- uPD70F3474
- uPD70F3475
- uPD70F3476
- uPD70F3477
- uPD70F3478
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- uPD70F3625
- uPD70F3626
- uPD70F3627

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uPD70F3628
uPD70F3629
uPD70F3630
uPD70F3631
uPD70F3632
uPD70F3633
uPD70F3634(A)
uPD70F3635(A)
uPD70F3636
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uPD70F3809
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uPD70F3939
uPD76F0117
uPD76F0192

> **Renesas V850 SPI**

uPD70F3333
uPD70F3334
uPD70F3335
uPD70F3336
uPD70F3340
uPD70F3341
uPD70F3342
uPD70F3343
uPD70F3344
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uPD70F3346
uPD70F3347
uPD70F3348
uPD70F3349GJ
uPD70F3350
uPD70F3351
uPD70F3352
uPD70F3353
uPD70F3354

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uPD70F3355
uPD70F3356
uPD70F3357
uPD70F3358
uPD70F3364
uPD70F3365
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uPD76F0192

> **Samsung**

S3F9444
S3F9454
S3F9488

> **SiLabs**

C8051F310
C8051F311
C8051F312
C8051F313
C8051F314

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C8051F315
C8051F316
C8051F317
C8051F320
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C8051F341
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C8051F343
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C8051F362
C8051F363
C8051F364
C8051F365
C8051F366
C8051F367
C8051F368
C8051F369
C8051F920
C8051F921
C8051F930
C8051F931

> ST

ST6220 *
ST6230 *
ST6232 *
ST6240 *
ST6245 *
ST6249 *
ST6260 *
ST10F168
ST10F269
ST10F273
ST10F275
ST10F276
ST10F280
STM8AF51
STM8AF6126
STM8AF6146
STM8AF6148
STM8AF6166
STM8AF6168
STM8L051F3
STM8L151K4
STM8L151K6
STM8L151R6
STM8L151R8

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STM8L152C4
STM8L152C6
STM8L152C8
STM8L152K4
STM8L152K6
STM8L152R6
STM8L152R8
STM8S003F3
STM8S005C6
STM8S005K6
STM8S103F2
STM8S103F3
STM8S103K3
STM8S105K4
STM8S207C6
STM8S207C8
STM8S207CB
STM8S207MB
STM8S207RB
STM8S207S6
STM8S207S8
STM8S207SB
STM8S208S6
STM8S903K3
STM32F030C6T
STM32F030C8T
STM32F030CCT
STM32F030F4T
STM32F030K6T
STM32F030R8T
STM32F030RCT
STM32F031C4T
STM32F031C6T
STM32F031F4T
STM32F031F6T
STM32F050C4T
STM32F050C6T
STM32F050F4T
STM32F050F6T
STM32F051C4T
STM32F051C6T
STM32F051C8T
STM32F051K4T
STM32F051K6T
STM32F051K8T
STM32F051R4T
STM32F051R6T
STM32F051R8T
STM32F100C4T
STM32F100C6T
STM32F100C8T
STM32F100CBT
STM32F100R4T
STM32F100R6T
STM32F100R8T
STM32F100RBT
STM32F101C6T
STM32F101C8T
STM32F101CBT
STM32F101R4T
STM32F101R6T
STM32F101R8T
STM32F101RBT

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STM32F101RCT
STM32F101RDT
STM32F101RET
STM32F101RFT
STM32F101RGT
STM32F101V8T
STM32F101VBT
STM32F101VCT
STM32F101VDT
STM32F101VET
STM32F101VFT
STM32F101VGT
STM32F103C4T
STM32F103C6T
STM32F103C8T
STM32F103CBT
STM32F103R4T
STM32F103R6T
STM32F103R8T
STM32F103RBT
STM32F103RCT
STM32F103RDT
STM32F103RET
STM32F103RFT
STM32F103RGT
STM32F103VFT
STM32F103VGT
STM32F205RBT
STM32F205RCT
STM32F205RET

> TI

MSP430F1121 BSL
MSP430F122 BSL
MSP430F122 JTAG
MSP430F123 BSL
MSP430F123 JTAG
MSP430F1232 BSL
MSP430F1232 JTAG
MSP430F135 JTAG
MSP430F2001 JTAG
MSP430F2011 JTAG
MSP430F2002 JTAG
MSP430F2012 JTAG
MSP430F2003 JTAG
MSP430F2013 JTAG
MSP430F2111 JTAG
MSP430F2121 BSL
MSP430F2132 BSL
MSP430F2132 JTAG
TMS370C002
TMS370C032
TMS370C036
TMS370C042
TMS370C056
TMS370C058
TMS370C059
TMS370C736
TMS370C756
TMS370C758
TMS370C759
TMS374C003A
TMS374CD13A
TMS375C006
Motorola, Freescale



> **MC68HC05**

MC68HC05B4
MC68HC05B6
MC68HC05B6 WDT
MC68HC05B8
MC68HC05B8 WDT
MC68HC05B16
MC68HC05B16 WDT
MC68HC05B32
MC68HC05H12
MC68HC05K3
MC68HC05L28
MC68HC05P3 [1E25B]
MC68HC05X16
MC68HC05X32
MC68HC05X32 div5
MC68HC705B16
MC68HC705B16 EPROM
MC68HC705B16N
MC68HC705B16N EPROM
MC68HC705B32
MC68HC705B32 EPROM
MC68HC705D9
MC68HC705E6 [F82B]
MC68HC705E6 [G72G]
MC68HC705E6 [H51A]
MC68HC705E6 [F75B]
MC68HC705P3 [F47V]
MC68HC705P3 [F75B]
MC68HC705X32
MC68HC705X32 div5
MC68HC705X32 EPROM

> **MC68HC08**

MC68HC08AB16A
MC68HC08AS20
MC68HC08AS32
MC68HC08AS32A
MC68HC08AZ32
MC68HC08AZ32A
MC68HC08AZ32A [1K59H]
MC68HC08AZ48A
MC68HC08AZ60 [1J35D]
MC68HC08AZ60A
MC68HC908AB32
MC68HC908AP8A
MC68HC908AP16A
MC68HC908AP32A
MC68HC908AP64
MC68HC908AS60
MC68HC908AS60A
MC68HC908AZ32A
MC68HC908AZ60
MC68HC908AZ60 [4J74Y]
MC68HC908AZ60A
MC68HC908GP32
MC68HC908GR16A
MC68HC908GR32A
MC68HC908GR48A
MC68HC908GZ60
MC68HC908JB8
MC68HC908JB16
MC68HC908JK3



MC68HC908JL3
MC68HC908JL8
MC68HC908JL16
MC68HC908KX2
MC68HC908LJ12
MC68HC908LJ24
MC68HC908LK24
MC68HC908QC4
MC68HC908QC8
MC68HC908QC16
MC68HC908QY2
MC9RS08KA1
MC9RS08KA2
MC9RS08LA8
MC9S08AC8
MC9S08AC32
MC9S08AC48
MC9S08AC60
MC9S08AC96
MC9S08AC128
MC9S08AW16
MC9S08AW32
MC9S08AW48
MC9S08AW60
MC9S08DV32
MC9S08DV96
MC9S08DZ60
MC9S08DZ128
MC9S08EL32
MC9S08FL16
MC9S08GB60
MC9S08GT32
MC9S08GT60A
MC9S08JM32
MC9S08JM60
MC9S08JS16
MC9S08QD2
MC9S08QD4
MC9S08QE8
MC9S08QG4
MC9S08QG8
MON08

> **MC68HC11**

MC68HC11A1
MC68HC11A8
MC68HC11E1
MC68HC11E9
MC68HC11E20
MC68HC11E32
MC68HC11EA9
MC68HC11EA9 [2D47J]
MC68HC11F1
MC68HC11K4
MC68HC11KA2
MC68HC11KA4
MC68HC11KG4
MC68HC11KS2
MC68HC11KW1
MC68HC11L6
MC68HC11P2
MC68HC11PA8
MC68HC11PH8

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MC68HC711E9
MC68HC711E9 EPROM
MC68HC711E20
MC68HC711E20 EPROM
MC68HC711EA9
MC68HC711EA9 EPROM
MC68HC711PH8

> MC68HC12

MC68HC12BC32
MC68HC12BE32
MC68HC12D60
MC68HC912B32
MC68HC912BC32
MC68HC912BE32
MC68HC912D60
MC68HC912D60A
MC68HC912D60P
MC68HC912DG128
MC68HC912DG128A
MC68HC912DG128C
MC68HC912DG128P
MC68HC912DJ128A
MC68HC912DT128A
MC68HC912DT128C
MC68HC912DT128P
MC9S12A64
MC9S12A128
MC9S12B64
MC9S12B128
MC9S12C32
MC9S12C64
MC9S12C128
MC9S12D64
MC9S12DB128
MC9S12DG128
MC9S12DG256
MC9S12DJ64
MC9S12DJ128
MC9S12DJ256
MC9S12DP256
MC9S12DP512
MC9S12DT128
MC9S12DT256
MC9S12DT512
MC9S12E64
MC9S12E128
MC9S12GC32
MC9S12H128
MC9S12H256
MC9S12HA32
MC9S12HY64
MC9S12HZ64
MC9S12HZ128
MC9S12HZ256
MC9S12KG256
MC9S12P64
MC9S12P96
MC9S12P128
MC9S12XB128
MC9S12XB256
MC9S12XD64
MC9S12XD128

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MC9S12XD256
MC9S12XDG128
MC9S12XDG256
MC9S12XDG512
MC9S12XDP512
MC9S12XDT256
MC9S12XDT384
MC9S12XDT512
MC9S12XEG128
MC9S12XEG384
MC9S12XEP768
MC9S12XEP100
MC9S12XEQ384
MC9S12XEQ512
MC9S12XET256
MC9S12XET512
MC9S12XF512
MC9S12XHY128
MC9S12XHY256
MC9S12XHZ256
MC9S12XHZ384
MC9S12XHZ512
MC9S12XS64
MC9S12XS128
MC9S12XS256
HC12 ALL

Program with Adapter.

Licenses for M08V, TMS370, Renesas V850 are optional.

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Orange5 Orange 5 Key Programmer Adapters:

Adapter SOIC8-DIP8 Expert

Adapter for ICs in SOIC8-DIP8 Expert body with width 150mil

Adapter SOIC8 14 93Cxx

Adapter for SOIC8 and SOIC14(93Cxx) (by soldering)

Adapter SSOP8/DIP8

Adapter for ICs in SSOP8/DIP8 body (by soldering)

Adapter SPI FLASH 25Fxx

Adapter SPI FLASH 25FXX in body SOIC8 and SOIC16 (by soldering)

Lead with clips POMONA SOIC8

SOIC8 clips (in-circuit)

Adapter ST62xx PQFP52 PQFP80

Adapter for microcontrollers ST62xx (by soldering)

Adapter MDA2061;MDA2062

Adapter MDA2061;MDA2062

Adapter 05L28/05B

Adapter for microcontrollers MC68HC05L28(SDIP56) and MC68HC05B6/B8 in DIP48 and SDIP56 bodies

Adapter 908AS60/AZ60 QFP64

Adapter for microcontrollers 908AS60/AZ60 in body QFP64 (by soldering)

Adapter 68HC(7)05P3/E6

Adapter for microcontrollers MC68HC705E6/HC05P3/HC705P3 in SOIC28 and QFP44 bodies (by soldering)

Adapter 05B/X_705B/X QFP64 ROM write

Adapter for MC68HC(7)05B16/32,MC68HC05X16/32 in body QFP64 (by soldering) ROM write

Adapter 11PA8/11E9 QFP64

Adapter for MC68HC11PA8 and MC68HC11E9 in body QFP64 (by soldering)

Adapter 68HC05H12

Adapter for microcontrollers 68HC05H12 PLCC52

Adapter MC68HC(7)11EA9

Adapter for microcontrollers MCHC(7)11EA9 in body PLCC52

Adapter 908AS60 PLCC52

Adapter for microcontrollers 908AS60 (08AS20) PLCC52

Adapter 912Dxx QFP80/912 QFP112

Adapter for MC912Dxxx QFP80,QFP112 (by soldering)

68HC912D60(A), 68HC912DG128(A),

68HC912DJ128, 68HC912DT128



Adapter 9S12Dxx QFP80/9S12 QFP112
Adapter for MC9S12Dxxx QFP80,QFP112 (by soldering):
9S12A64, 9S12D64, 9S12A128, 9S12B128,
9S12DB128, 9S12DG128, 9S12Dj128, 9S12DT128,
9S12DJ256, 9S12DG256, 9S12DP256, 9S12DP256,
9S12DT256, 9S12DP512, 9S12DT512, 9S12XD128,
9S12XDG128, 9S12XDG256, 9S12XDT256, 9S12XDT384,
9S12XDG512

Adapter 912B32 QFP80
Adapter for 912B32 QFP80 (by soldering):
MC68HC912B32, MC68HC12BE32, MC68HC12BC32,
MC68HC912BC32, MC68HC912BD32

Adapter 9S12X QFP80/QFP112
Adapter 9S12H/HZ/XHZ QFP80/QFP112 (by soldering):
9S12H128, 9S12HZ128, 9S12H256,
9S12HZ256, 9S12XHZ256, 9S12XHZ512, etc..

Adapter MC68HC11F1 PLCC68
Adapter for MC68HC11F1 in body PLCC68

Adapter 68HC11L6
Adapter 68HC11L6

Adapter 68HC11KA4 QFP80
Adapter 68HC11KA4 MC68HC11Kx (by soldering)

Lead 05B6 WDT VW immo
Lead for 05B6 WDT VW immo (in-circuit)

Lead 11E9(20) with power
Lead for 11E9(20) with power (in-circuit)

Lead EWS3 mask 0D46J
Lead for EWS3 mask 0D46J (in-circuit)

Lead 11KA4 with power
Lead for 11KA4 with power (in-circuit)

Lead 912 (9S12)
Lead for 912 (9S12) (in-circuit)

Lead 908 (08)
Lead for 908 (08) (in-circuit)

Lead 705E6
Lead for 705E6 (in-circuit)

Adapter TMS374
Adapter for TMS374C003A, TMS374CD13A (by soldering)



PLCC Extractor

Extractor for micro-controllers in PLCC socket

Adapter 68HC11KA4 PLCC68

Adapter for 68HC11KA4 in body PLCC68

Adapter NAND Flash

Adapter for NAND Flash Samsung, Hynix, etc...
in body TSOP44, TSOP48. Double-sided (by soldering)

Adapter NDM457

Adapter NDM457

Adapter PICAVR

Adapter for Microchip PIC12, PIC16 and Atmel AVR

Adapter 908JL

Adapter for 908JL DIP28, SOIC28, QFP32 (by soldering): MC68HC908JL3, MC68HC908JL8, MC68HC908JK3, MC68HC908JK8

Adapter PCF 7941

Adapter for PCF 7941 (by soldering)

Adapter MSP430F

Universal adapter MSP430F

Adapter 9S12XE

Adapter for 9S12XE QFP80, QFP112 (by soldering):
9S12XEP, XEQ, XS

Orange-5 box renewal kit

Replacement box for Orange-5 programmer

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