

Universal Development KIT UDK

UDK Includes:

Universal Development Interface (UDI)

GSM Cables,

Universal Programming Interface (UPI) not for all users,

SMART CARD Readers (In future)

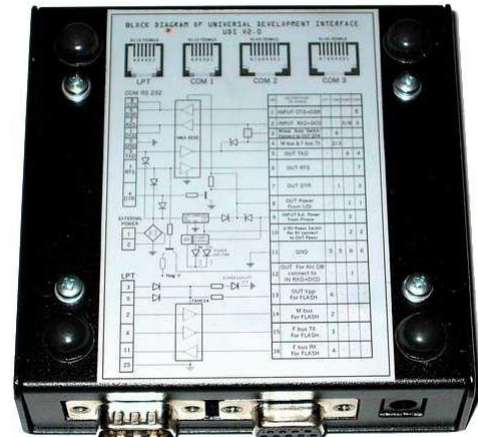
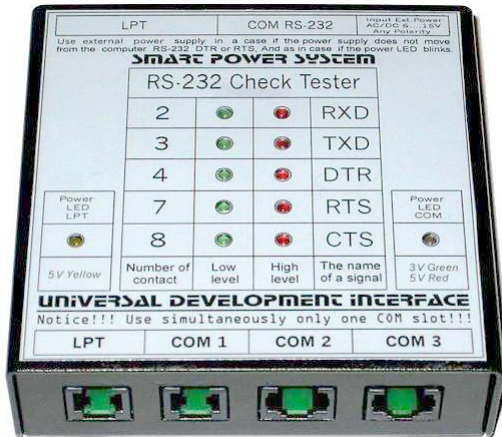
Features of UDI:

- Based on Max3232
- Dejan LPT FLASHING interface built-in in BOX
- RS232 Level Indicator built-in in BOX
- Smart Power System with 3v/5v auto switching
- Low power indicator built-in
- 3V power indicator built-in
- 5V power indicator built-in
- LPT power indicator built-in
- Can take power from the com port
- Can take power from the power supply
- Can take power from the phone (not from all phones)



Universal Development Interface UDI

Next generation of universal GSM Box

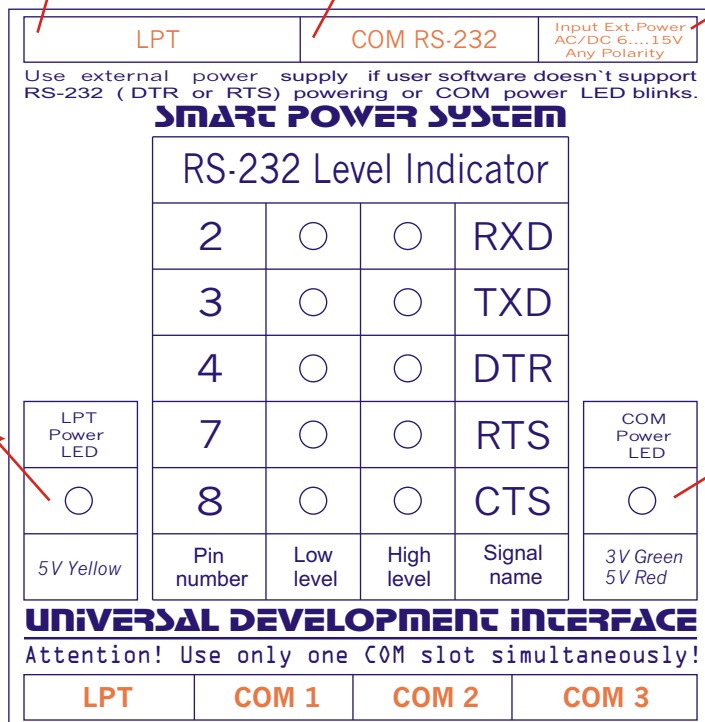


Connect To PC LPT Port Through Special Cable
It Is Necessary For Work Dejan LPT Interface

Connect To PC RS 232 COM 1 or COM 2
Port Through Standart COM Port Cable

If It Is Necessary Usage
External Power Adaptor

LPT Slot Yellow Power Led



COM Slot Two-Color Power LED
Green Color: Output Default Power 3 Volt.
RED Color: Output Switched For 5 Volt,
Or Input External Power From Phone
(Some Phone Models)
If Power LED Blinks Or Not Lights,
Use External Power Adaptor.

Default power output from UDI
3 volt, for switching on 5 volt
connect pin1 and pin2 together
in slot COM2 or COM3

LPT Slot for Dejan LPT FLASHING Interface.

COM 1 Slot for NOKIA, BOSCH Mbus/Fbus/Cbus Auto Switch.

COM 2 Slot for Most Phones.

COM 3 Multifunction Slot:

1. Slot for Some Phones.
2. Program EEPROM I2C, SPI, SD BUS, MICROWIRE Without Special Adaptors.
3. Program PIC Controller, ATMEL Controller, EEPROM With Special Adaptors.
4. Program MOTOROLA 68HC05, 68HC705, 68HC11 Processors In Carradio.
5. Connect SIM Card Readers.

UDK U2.5 CABLES FOR CONNECT PHONES

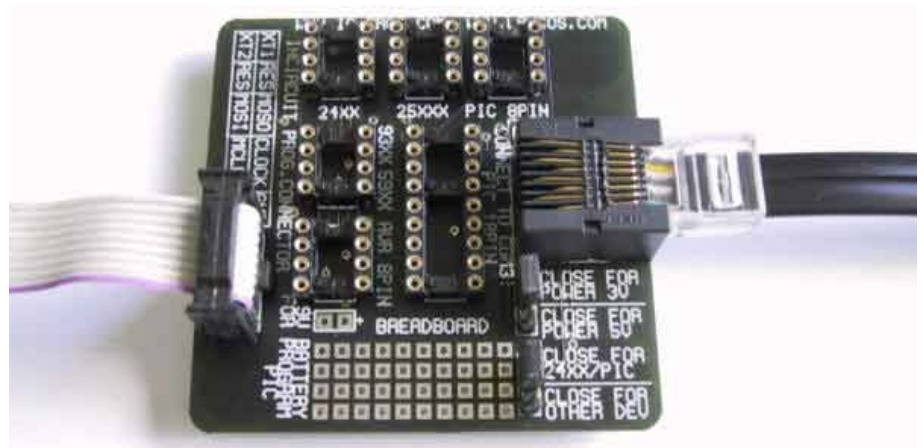
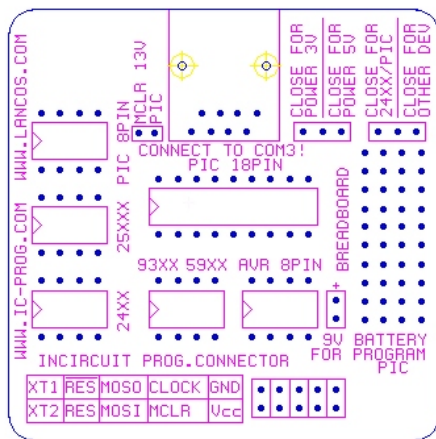
Name of Cable	Name of Slot	Name of Phone	Supports following models:
NK 21	COM1	Cable For Nokia	2110
NK 31	COM1	Cable For Nokia	1610/1611/3110/8110
NK 51	COM1/LPT	Cable For Nokia	5110/6110/6150/6210/7110
NK 32	COM1/LPT	Cable For Nokia	3210 6Pin
NK 33	COM1/LPT	Cable For Nokia	3310/3330
NK 82	COM1/LPT	Cable For Nokia	8210/8850
NK 83*	COM1/LPT	Cable For Nokia	8310/6510
NK 92*	COM1/LPT	Cable For Nokia	9210
ER 3XX	COM2	Cable For Ericsson	237/337/388 (Input of power supply to BOX from the Phone)
ER T10	COM2	Cable For Ericsson	6XX/7XX/T1X/A1018 (Input of power supply to BOX from the Phone)
ER T28	COM2	Cable For Ericsson	T2X/A2618/R320s (Input of power supply to BOX from the Phone)
SM 6	COM2	Cable For Siemens	S6/S8
SM 10	COM2	Cable For Siemens	S10/S11
SM 25	COM2	Cable For Siemens	C25/C28/S25/C35/S35/M35
SM 30	COM2	Cable For Siemens	C30/S30
SM 40	COM2	Cable For Siemens	S40
PA 500	COM2	Cable For Panasonic	G450/G500
PA 600	COM2	Cable For Panasonic	G520/G600
PA 90	COM2	Cable For Panasonic	GD30/GD50/GD70/G D90
PA 92	COM2	Cable For Panasonic	GD52/GD92/GD93/G D95
PHIL SAVVY	COM2	Cable For Philips	Savvy/Xenium/ Azali s
ALC OT	COM2	Cable For Alcatel OT	Easy/Club/Max/View
ALC DB	COM2	Cable For Alcatel DB	Easy/Max/Club/View
ALC BF*	COM2	Cable For Alcatel BF	310/311/511
SAG 9	COM2	Cable For Sagem	912/922/929/939/958
BO 5	COM1	Cable For Bosch	508/509/512/607/608/718/738
BO 9	COM1	Cable For Bosch	908/909/909/912
SO J5	COM2	Cable For Sony	J5/J6/J7
SO CD5	COM2	Cable For Sony	Cmd-Cd5
MIT S TR ARIA	COM2	Cable For Mitsubishi	Trium Aria
MIT S TR ARIA FL*	COM2	Cable For Mitsubishi	Trium Aria (Input Charging Voltage For Flash)
MIT S TR ASTR	COM2	Cable For Mitsubishi	Tri um Astral/ Galaxy/Geo
MIT S TR ASTR FL*	COM2	Cable For Mitsubishi	Tri um Astral/ Galaxy/Geo (Inp ut Ch arging Voltage For F lash)
MIT S TR MARS	COM2	Cable For Mitsubishi	Trium Mars
MIT S TR MARS FL*	COM2	Cable For Mitsubishi	Trium Mars (Input Charging Voltage For Flash)
SA 600*	COM2	Cable For Samsung	SGH-600/2100/2200/2400
SA 600 I2C*	COM2	Cable For Samsung	SGH-600/2100/2200/2400 (I2C)
Cable marked is familiar * in a standard package of delivering do not enter.			

Universal Programming Interface UPI V1.0

UPI it is possible to use for programming EEPROM I²C, SPI, MICROWIRE, MICROCHIP PIC and ATMEL AVR Controllers through UDI V2.X slot COM3 with special software IC-PROG or Pony Prog.

Features:

- Can programming I²C 24xx, SPI 25xxx, Microwire 93xx/59xx EEPROMs.
- Can programming PIC 8 pin and 18 pin.
(It is necessary to connect the exterior battery 9v).
- Can programming PIC 28 and 40 pin only is IN-CIRCUIT or through an additional IC socket.
(It is necessary to connect the exterior battery 9v).
- Can programming ATMEL AVR 8 pin.
- Can programming ATMEL AVR 20, 28, 32, 40, 44, 64 pin only is IN-CIRCUIT or through an additional IC socket.
- Possibility to programming chips as at a supply voltage 5v and 3v.
- Led for see how going programming PIC controllers (MCLR 13V).
- Connector for IN-CIRCUIT programming.



The program **IC PROG ver 1,05 beta** <http://www.ic-prog.com> allows to program the following chips:

Microchip PIC: PIC12C508, 508A, 509, 509A, 671, 672, PIC12E518, 519, PIC12CE673, 674,

PIC16C54, 56, 505, 61, 61A, 61B, 63, 63A, 64 A*, 65A* 65B*, 66, 67*, 620, 621, 622, 622A, 627, 628,

71, 72, 72A, 73A, 73B, 74A*, 74B*, 76, 77*, 433, 505*, 711, 715, 765*, 923*, 924*, PIC16CE625.

PIC16C84, PIC16F83, 84, 84A, PIC16F870*, 871*, 872*, 873*, 874*, 876*, 877*.

PIC18F242*, 248, 252*, 258*, 442*, 448*, 452*, 458*.

Atmel AVR: AT90S1200*, 2313*, 2323, 2333, 2343, 4414*, 4433*, 4434*, 8515*, 8535*, AT89S53*, 8252*.

EEPROM I2C: 24C01, 24C02, 24C04, 24C08, 24C16, 24C32, 24C64, 24C128, 24C256, 24C512,

EEPROM I2C Siemens: SDA2516, SDA2526, SDA2546, SDA2586, SDA3506, SDA3516, SDA3526,

EEPROM Microwire: 93C06, 93C46, 93C56, 93C57, 93C66, 93C76, 93C86, 59C11, 59C13, 59C22,

EEPROM SPI: 25010, 25020, 25040, 25080, 25160, 25320, 25640, 25128, 25256,

EEPROM Siemens SD BUS: SDA2506*,

(EEPROM: 93LC66, 76, 86, 25LCXX in version 1.04beta are not supported.) The program works under WINDOWS 95,98. For setup push the [F3] key "Hardware settings", select the interface JDM Programmer and number of a COM port, which you use. As it is necessary *Select Polarity of the Control lines:*

Invert Data Out - ON, Invert Data In - ON, Invert Clock - ON, Invert MCLR - ON.

The program **PonyProg2000 ver 2.05a beta** <http://www.LancOS.com> allows to program the following chip:

Microchip PIC: PIC12C508, 508A, 509, 509A, 671, 672, PIC12E518, 519, PIC12CE673, 674

PIC16X83, PIC16X84, PIC16F84A, PIC16F870*, 871*, 872*, 873*, 874*, 876*, 877*.

Atmel AVR: AT90S1200*, 2313*, 2323, 2333, 2343, 4414*, 4433*, 4434*, 8515*, 8534*, 8535*,

ATmega 8*, 16*, 64*, 103*, 128*, 161*, 163*, 323*, 603*, ATtiny 12, 15, 22, AT89S53*, 8252*.

EEPROM I2C: 24C01, 24C02, 24C04, 24C08, 24C16, 24C32, 24C64, 24C65, 24C128, 24C256, 24C512,

24C325, 24C645, 24E16, AT17C65*, AT17C128*, AT17C256*, AT17C512*, AT17C010*.

EEPROM I2C Siemens: SDE2526, SDA2546, SDA2586, SDA3546, SDA3586

EEPROM SPI: 25010, 25020, 25040, 25080, 25160, 25320, 2564X, 25128, 25256, 95640.

EEPROM Microwire: 9306, 9346, 9356, 9357, 9366, 9376, 9386.

EEPROM Siemens SD BUS: SDE2506*.

EEPROM: S2430*, X2444*, X2445*.

The program works under WINDOWS 95,98. For setup choice *Setup / Interface Setup*. Further it is necessary to select *SI Prog I/O* and number of a COM port, which you use.

As it is necessary *Select Polarity of the Control lines:*

Invert D-OUT - ON, Invert D-IN - ON, Invert SCKL - ON, Invert RESET - ON.

For program PIC: Invert D-OUT - OFF.

Chips marked is familiar * are programmed only in-circuit or through additional IC sockets

The circuit of Universal Programming Interface UPI V1.0

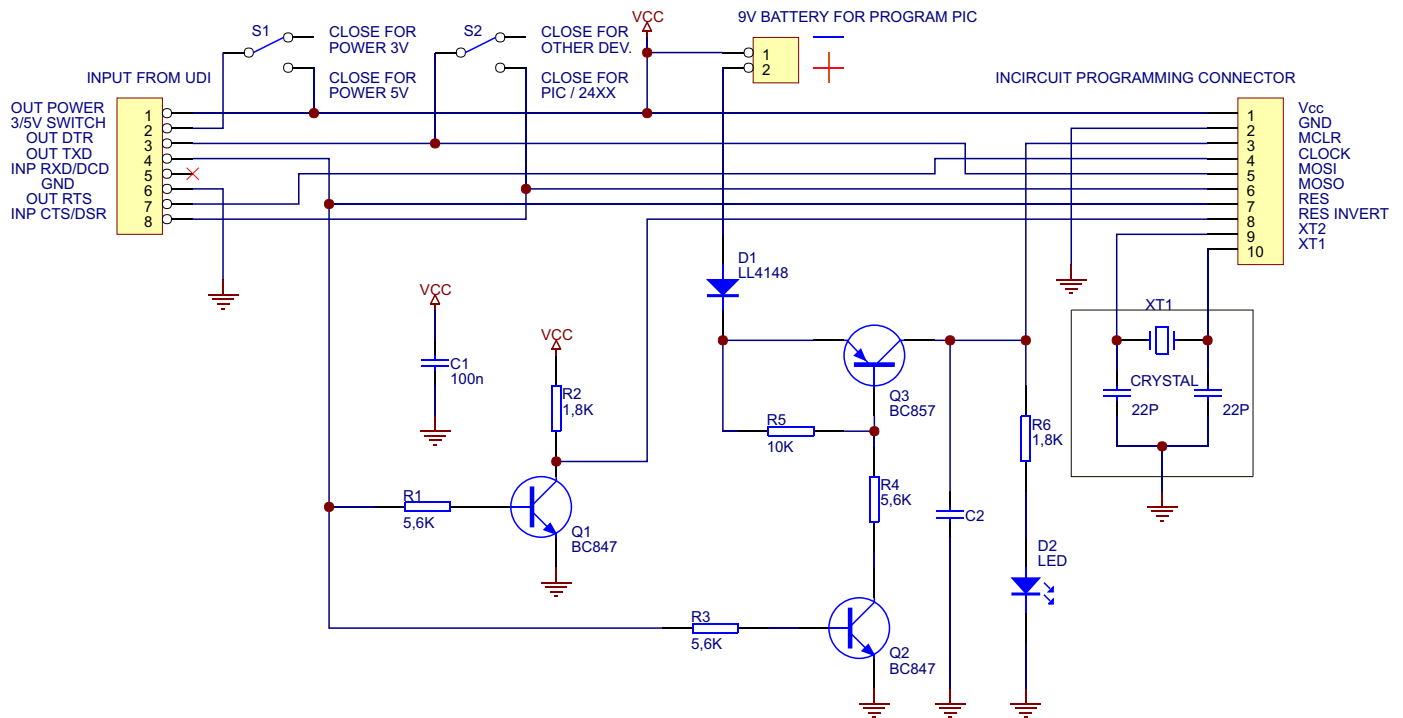


Table of connection PIC to UPI for Incircuit Programming

SIGNAL OF THE ICP CONNECTOR	SIGNAL OF THE PIC	DIP 8 PIC	DIP18 PIC	DIP28 PIC	DIP 40 PIC
Vcc	Vdd	1	14	20	11,32
GND	Vss	8	5	8,19	12,31
MOSI	RB7	7	13	28	40
CLOCK	RB6	6	12	27	39
MCLR	MCLR	4	4	1	1

Table of connection ATMEL AVR to UPI for Incircuit Programming

SIGNAL OF THE ICP CONNECTOR	SIGNAL OF THE AVR	DIP 8 AT 90	DIP 20 AT 90	DIP 28 AT 90	DIP 40 AT904434/8535	DIP 40 AT904414/8515	DIP 40 AT89S8252/S53
RES	RESET	-	-	-	-	-	9
RES IVERT	RESET INVERT	1	1	1	9	9	-
XT1	XTAL 1	2	4	9	12	18	18
XT2	XTAL 2	3	5	10	13	19	19
GND	GND	4	10	8	11	20	20
MOSI	MOSI	5	17	17	6	6	6
MOSO	MOSO	6	18	18	7	7	7
CLOCK	SCK	7	19	19	8	8	8
Vcc	Vcc	8	20	7	10	40	40

Table of connection EEPROM to UPI

SIGNAL OF THE COM PORT	SIGNAL OF THE ICP CONNECTOR	SIGNAL OF THE SD(X)2506 (SD BUS)	DIP 8 SD(X)2506	SIGNAL OF THE 24XX (I2C)	DIP8 24XX	SIGNAL OF THE 93XX/59XX (SPI)	DIP8 93XX/59XX	SIGNAL OF THE 25XXX(MICROWIRE)	DIP8 25XXX
	Vcc	Vcc	3	Vcc	8	Vcc	8	Vcc	8
	Vcc	-	-	-	-	ORG	6	HOLD	7
	Vcc	-	-	-	-	RE	7	WP INV	3
OUT TXD	RES	-	-	-	-	CS	1	-	-
OUT TXD	RES INVERT	CE INVERT	2	-	-	-	-	CS INVERT	1
INPUT CTS	MOSO	D	4	SDA	5	DO	4	SO	2
OUT DTR	MOSI	D	4	SDA	5	DI	3	SI	5
OUT RTS	CLOCK	CLK	5	SCL	6	CLK	2	SCK	6
GND	GND	GND	1	GND	4	GND	5	GND	4
GND	GND	TP	7	A0	1	-	-	-	-
GND	GND	-	-	A1	2	-	-	-	-
GND	GND	-	-	A2	3	-	-	-	-
GND	GND	-	-	TEST	7	-	-	-	-

Programming EEPROM I2C, SPI, SD BUS, MICROWIRE Through UDK v2,5 Without Special Adapters

The program **IC PROG ver 1,04 beta** <http://www.ic-prog.com> allows to program the following chips:
(Without special adaptors)

EEPROM I2C: 24C01, 24C02, 24C04, 24C08, 24C16, 24C32, 24C64, 24C128, 24C256, 24C512,
EEPROM I2C Siemens: SDA2516, SDA2526, SDA3506, SDA3516, SDA3526,
EEPROM Microwire: 93C06, 93C46, 93C56, 93C57, 93C66, 93C76, 93C86, 59C11, 59C13, 59C22,
EEPROM SPI: 25010, 25020, 25040, 25080, 25160, 25320, 25640, 25128, 25256,
EEPROM Siemens SD BUS: SDA2506,

(EEPROM: 93LC66, 76, 86, 25LCXX in version 1.04beta are not supported.) The program works under WINDOWS 95,98. For setup push the [F3] key "Hardware settings", select the interface JDM Programmer and number of a COM port, which you use. As it is necessary *Select Polarity of the Control lines* according to the applied table.

The program **PonyProg2000 ver 2.05a beta** <http://www.LancOS.com> allows to program the following chip:
(Without special adaptors)

EEPROM I2C: 24C01, 24C02, 24C04, 24C08, 24C16, 24C32, 24C64, 24C65, 24C128, 24C256, 24C512,
24C325, 24C645, 24E16, AT17C65*, AT17C128, AT17C256, AT17C512, AT17C010,
EEPROM Microwire: 9306, 9346, 9356, 9357, 9366, 9376, 9386, 59C11,
EEPROM SPI: 25010, 25020, 25040, 25080, 25160, 25320, 2564X, 25128, 25256, 95640,
EEPROM Siemens SD BUS: SDE2506,

The program works under WINDOWS 95,98. For setup choice *Setup / Interface Setup*. Further it is necessary to select *SI Prog I/O* and number of a COM port, which you use.

As it is necessary *Select Polarity of the Control lines* according to the applied table.

Select Polarity of the Control lines for Program I2C			
IC PROG		PONYPROG	
Invert Data Out	ON	Invert D-OUT	ON
Invert Data In	ON	Invert D-IN	ON
Invert Clock	ON	Invert SCKL	ON
Invert MCLR	ON	Invert Reset	ON

Select Polarity of the Control lines for Program SPI			
IC PROG		PONYPROG	
Invert Data Out	ON	Invert D-OUT	ON
Invert Data In	ON	Invert D-IN	ON
Invert Clock	ON	Invert SCKL	ON
Invert MCLR	OFF	Invert Reset	OFF

Select Polarity of the Control lines for Program SD BUS			
IC PROG		PONYPROG	
Invert Data Out	ON	Invert D-OUT	ON
Invert Data In	ON	Invert D-IN	ON
Invert Clock	ON	Invert SCKL	ON
Invert MCLR	OFF	Invert Reset	OFF

Select Polarity of the Control lines for Program MICROWIRE			
IC PROG		PONYPROG	
Invert Data Out	ON	Invert D-OUT	ON
Invert Data In	ON	Invert D-IN	ON
Invert Clock	ON	Invert SCKL	ON
Invert MCLR	ON	Invert Reset	ON

Default power ouputput from UDI 3 volt, for switching on 5 volt connect pin1 and pin2 together in slot COM3

Table of connection EEPROM to UDK v2.0 (For Programm EEPROM without additional adaptors)									
NUMBER OF THE SIGNAL UDK COM3	DESCRIPTION OF THE SIGNAL UDK COM3	SIGNAL OF THE SD(X)2506 (SD BUS)	DIP 8 SD(X)2506	SIGNAL OF THE 24XX (I2C)	DIP8 24XX	SIGNAL OF THE 93XX/59XX (SPI)	DIP8 93XX/59XX	SIGNAL OF THE 25XXX(MICROWIRE)	DIP8 25XXX
1	OUT Power from UDI	Vcc	3	Vcc	8	Vcc	8	Vcc	8
1	OUT Power from UDI	-	-	-	-	ORG	6	HOLD	7
1	OUT Power from UDI	-	-	-	-	RE	7	WP INV	3
4	OUT TXD (RESET)	CE INV	2	-	-	CS	1	CS INV	1
8	INPUT CTS (DATA IN)	D	4	SDA	5	DO	4	SO	2
3	OUT DTR (DATA OUT)	D	4	SDA	5	DI	3	SI	5
7	OUT RTS (CLOCK)	CLK	5	SCL	6	CLK	2	SCK	6
6	(GND)	GND	1	GND	4	GND	5	GND	4
6	(GND)	TP	7	A0	1	-	-	-	-
6	(GND)	-	-	A1	2	-	-	-	-
6	(GND)	-	-	A2	3	-	-	-	-
6	(GND)	-	-	TEST	7	-	-	-	-

BLOCK DIAGRAM OF UNIVERSAL DEVELOPMENT INTERFACE
UDI V2.5

