

EPROM/FLASH Simulator

- 8, 16 or 32 Bit Operation
- 2, 8, 16 or 64 MBit Versions
- DIL or PLCC Adapters
- SO Adapter
- TSOP Adapter
- ESI-CON for In-Circuit Simulation
- Monitor Control
- NMI and RESET Generation

The EPROM simulator replaces up to 2 EPROMs on the target system. They can work in 8 or 16 bit mode. A 40 pin target adapter replaces 16 bit EPROMs. Banked EPROMs may be simulated too. Two EPROM simulators are used to build a 32-bit emulation system.

The EPROM simulator support communication functions. Therefore monitor programs can communicate very fast with the host system. The download speed is up to 100 KByte/sec. (400 KByte/sec. on ESI/64M). All TRACE32 monitor systems support this interface.

Features

Function

The EPROM simulator replaces up to 2 EPROMs on the target system. They can work in 8 or 16 bit mode. A 40 pin target adapter replaces 16 bit EPROMs. Banked EPROMs may be simulated too. Two EPROM simulators are used to build a 32-bit emulation system.

- 8 and 16 Bit Emulation
- Simulates two 8 Bit or one 16 Bit EPROM
- Support of banked EPROMs
- 2 or 8 Mbit totally
- 70/40ns Access Time
- High-Speed Download
- Reset Function for Target
- ROM Monitor Interface
- Operation together with BDM Debugger
- Expansion Capability
 - 32 Bit Operation with 2 Simulators
 - 64 Bit Operation with 4 Simulators

Supported EPROM Pinouts

8 Bit DIL adapter

A19	1	32	VCC
A16	2	31	A18
A15	3	30	A17
A12	4	29	A14
A07	5	28	A13
A06	6	27	A08
A05	7	26	A09
A04	8	25	A11
A03	9	24	/OE
A02	10	23	A10
A01	11	22	/CE
A00	12	21	D07
D00	13	20	D06
D01	14	19	D05
D02	15	18	D04
GND	16	17	D03

Note: For 28 (24) pin EPROMS VCC is required on pin 30 (28).

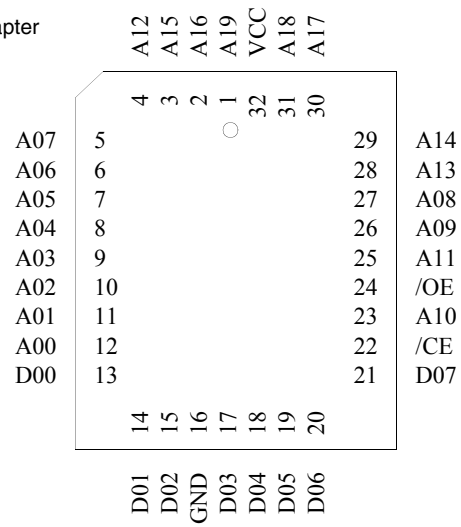
16 Bit DIL adapter

A18	1	40	VCC
/CE	2	39	A17
D15	3	38	A16
D14	4	37	A15
D13	5	36	A14
D12	6	35	A13
D11	7	34	A12
D10	8	33	A11
D09	9	32	A10
D08	10	31	A09
GND	11	30	GND
D07	12	29	A08
D06	13	28	A07
D05	14	27	A06
D04	15	26	A05
D03	16	25	A04
D02	17	24	A03
D01	18	23	A02
D00	19	22	A01
/OE	20	21	A00

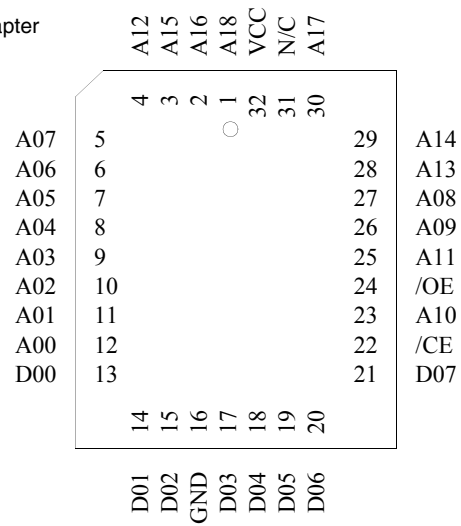
16 Bit DIL adapter
(8/16 MBit)

A18	1	42	A19
A17	2	41	A08
A07	3	40	A09
A06	4	39	A10
A05	5	38	A11
A04	6	37	A12
A03	7	36	A13
A02	8	35	A14
A01	9	34	A15
A00	10	33	A16
/CE	11	32	A20
GND	12	31	A21
/OE	13	30	D15
D00	14	29	D07
D08	15	28	D14
D01	16	27	D06
D09	17	26	D13
D02	18	25	D05
D10	19	24	D12
D03	20	23	D04
D11	21	22	VCC

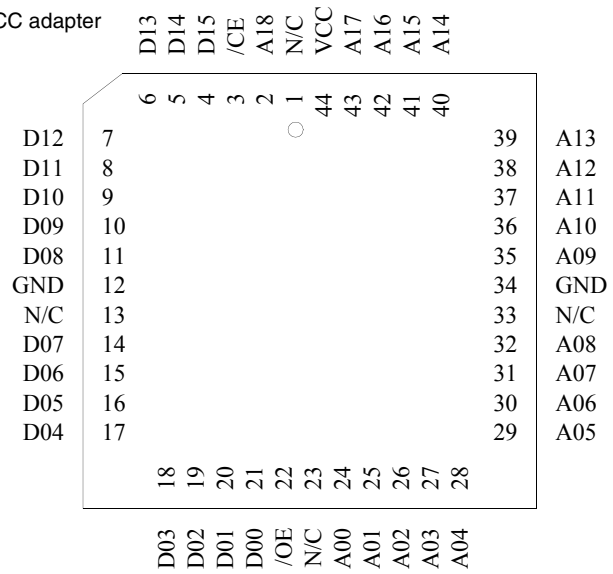
8 bit PLCC adapter
EPROM mode



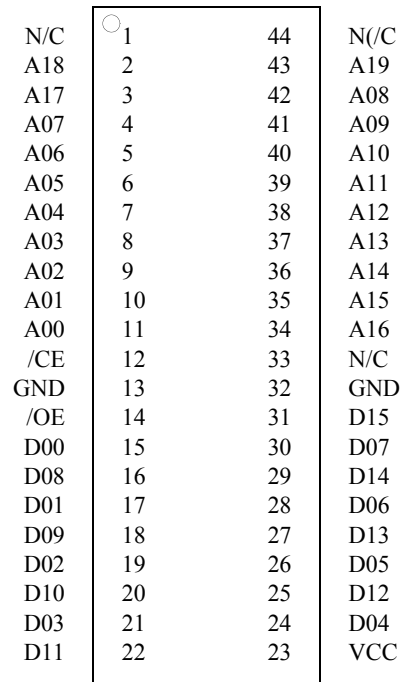
8 bit PLCC adapter
FLASH mode



16 bit PLCC adapter



SO44



TSOP32	A11	1	32	/OE
	A09	2	31	A10
	A08	3	30	/CE
	A13	4	29	D07
	A14	5	28	D06
	A17	6	27	D05
	N/C	7	26	D04
	VCC	8	25	D03
	A18	9	24	GND
	A16	10	23	D02
	A15	11	22	D01
	A12	12	21	D00
	A07	13	20	A00
	A06	14	19	A01
	A05	15	18	A02
	A04	16	17	A03
TSOP40	A16	1	40	A17
	A15	2	39	GND
	A14	3	38	A20
	A13	4	37	A19
	A12	5	36	A10
	A11	6	35	D07
	A09	7	34	D06
	A08	8	33	D05
	N/C	9	32	D04
	N/C	10	31	VCC
	N/C	11	30	VCC
	PULLUP	12	29	A21
	A18	13	28	D03
	A07	14	27	D02
	A06	15	26	D01
	A05	16	25	D00
	A04	17	24	/OE
	A03	18	23	GND
	A02	19	22	/CE
	A01	20	21	A00

TSOP48 8 bit	A16	1	48	A17
	A15	2	47	N/C
	A14	3	46	GND
	A13	4	45	A00
	A12	5	44	D07
	A11	6	43	N/C
	A10	7	42	D06
	A09	8	41	N/C
	A20	9	40	D05
	A21	10	39	N/C
	N/C	11	38	D04
	N/C	12	37	VCC
	A22	13	36	N/C
	N/C	14	35	D03
	PULLUP	15	34	N/C
	A19	16	33	D02
	A18	17	32	N/C
	A08	18	31	D01
	A07	19	30	N/C
	A06	20	29	D00
	A05	21	28	/OE
	A04	22	27	GND
	A03	23	26	/CE
	A02	24	25	A01

TSOP48 16 bit	A15	1	48	A16
	A14	2	47	N/C
	A13	3	46	GND
	A12	4	45	D15
	A11	5	44	D07
	A10	6	43	D14
	A09	7	42	D06
	A08	8	41	D13
	A19	9	40	D05
	A20	10	39	D12
	N/C	11	38	D04
	N/C	12	37	VCC
	A21	13	36	D11
	N/C	14	35	D03
	PULLUP	15	34	D10
	A18	16	33	D02
	A17	17	32	D09
	A07	18	31	D01
	A06	19	30	D08
	A05	20	29	D00
	A04	21	28	/OE
	A03	22	27	GND
	A02	23	26	/CE
	A01	24	25	A00

Signal	Pin	Pin	Signal
GND	1	2	GND
A11	3	4	A12
A10	5	6	A13
A09	7	8	A14
A08	9	10	A15
A07	11	12	A16
A06	13	14	A17
A05	15	16	A18
A04	17	18	A19
A03	19	20	A20
A02	21	22	A21
A01	23	24	A22
A00	25	26	A23
(OPFETCH-)*	27	28	(WRITE-)*
CE_LOWERBYTE-	29	30	OE_LOWERBYTE-
D00	31	32	D01
D02	33	34	D03
D04	35	36	D05
D06	37	38	D07
GND	39	40	VCC_TARGET
GNDS	41	42	RESET+/-
VCCS	43	44	NMI+/-
WORD_SELECT-	45	46	(CYCLE-)*
GND	47	48	GND
CE_UPPERBYTE-	49	50	OE_UPPERBYTE-
D08	51	52	D09
D10	53	54	D11
D12	55	56	D13
D14	57	58	D15
GND	59	60	GND
VCC_BUFFER	61	62	VCC_3VOLT
VCC_INTERN	63	64	VCC_TARGET

ESICON adapter

(*) Signals only necessary for RISC Trace

Order Information

Module Description

OrderNo Code	Text
LA-7492 ESI/16M/40	EPROM Simulator 16 MBit supports devices up to 16 MBit, 8 and 16 Bit, 40ns access time, including adapter for DIL28/32 and DIL40 supports up to two ROM Monitor licenses
LA-7494 ESI/64M/40	EPROM Simulator 64 MBit supports devices up to 64 MBit, 8 and 16 Bit, 40ns access time, including adapter for DIL28/32 and DIL40, supports up to two ROM Monitor licenses
LA-7493 ESI/16M/40- 3.3V	EPROM Simulator 16 MBit 3.3V supports devices up to 16 MBit, 8 and 16 Bit, 40ns access time, 3.3V including adapter for DIL28/32 and DIL40, supports up to two ROM Monitor licenses
LA-7480 ESI-DIL42	Adapter for DIL42 adapter for 16-bit DIL-EPROM, connection to DIL42 for 16, 32 and 64 MBit EPROM
LA-7505 ESI-PLCC32	Adapters for PLCC32 2 adapters for 8-Bit PLCC-EPROMs (10,6 mm), connection to PLCC32
LA-7483 ESI-PLCC32- SHORT	Adapters for PLCC32-SHORT 2 short adapters for 8-Bit PLCC-EPROMs (4,5 mm), connection to PLCC32
LA-7506 ESI-PLCC44	Adapter for PLCC44 adapter for 16-Bit PLCC-EPROM (10,6 mm), connection to PLCC44
LA-7509 ESI-CON-SO44	Converter for SO44 Converter from DIL40 to SO44 package (1.27mm x 16mm) for 16-Bit Flash

OrderNo Code	Text
LA-7481 ESI-SO44	Adapter for SO44 adapter for 16-bit EPROM, connection to SO44 for 16 MBit EPROM
LA-7482 ESI-CON	Universal EPROM Simulator Adapter 8/16 Bit Adapter to ESI-CON universal connector, supports 8 and 16 bit, 3,3 V and 5 V devices, up to 64 MBit, high-speed download 500 KByte/sec.
LA-7471 ESI-TSSOP48-16	Adapter for TSSOP48 16 Bit Adapter for 16-Bit TSSOP FLASH devices, connection from ESICON to TSSOP48, use with ESI-CON adapter
LA-7472 ESI-TSSOP48-8	Adapter for TSSOP48 8 Bit Adapter for 8-Bit TSSOP FLASH devices, connection from ESICON to TSSOP48, use with ESI-CON adapter
LA-7473 ESI-TSSOP40	Adapter for TSSOP40 8 Bit Adapter for 8-Bit TSSOP FLASH devices, connection from ESICON to TSSOP40, use with ESI-CON adapter

Detailed Order Information

Order No.	Code	Text
LA-7492	ESI/16M/40	EPROM Simulator 16 MBit
LA-7494	ESI/64M/40	EPROM Simulator 64 MBit
LA-7493	ESI/16M/40-3.3V	EPROM Simulator 16 MBit 3.3V
LA-7480	ESI-DIL42	Adapter for DIL42
LA-7505	ESI-PLCC32	Adapters for PLCC32
LA-7483	ESI-PLCC32-SHORT	Adapters for PLCC32-SHORT
LA-7506	ESI-PLCC44	Adapter for PLCC44
LA-7509	ESI-CON-SO44	Converter for SO44
LA-7481	ESI-SO44	Adapter for SO44
LA-7482	ESI-CON	Universal EPROM Simulator Adapter 8/16 Bit
LA-7471	ESI-TSSOP48-16	Adapter for TSSOP48 16 Bit
LA-7472	ESI-TSSOP48-8	Adapter for TSSOP48 8 Bit
LA-7473	ESI-TSSOP40	Adapter for TSSOP40 8 Bit
Additional Options		
LA-7507	ESI-DIL32	Adapters for DIL
LA-7508	ESI-DIL40	Adapter for DIL40

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