Errata 4

Manual: 26037

Manual Index: 01

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1. Reference: Page 1 - 5, Chapter 1.2, Text

The referenced information is revised as follows.

The paragraph:

Two standard memory configurations (32 MB or 64 MB SDRAM) are available, with 128 MB available on request. Flash memory for integrating the initial bootloader and ROMable operating systems are provided . Additionally, NV SRAM or a Disk-On-Chip (by M-Systems) can be placed on a DIL socket for special purposes.

is changed to read:

Two standard memory configurations (32 MB or 64 MB SDRAM) are available, with 128 MB available on request. Flash memory for integrating the initial bootloader and ROMable operating systems are provided. Additionally, NV SRAM, a DiskOnChip from M-Systems (obsolete), or an IDE NANDrive™ DIP module from Kontron can be placed on a DIL socket for special purposes.

2. Reference: Page 1 - 6, Chapter 1.3, Table 1-1

The referenced information is revised as follows.

The table row:

DIL600 Socket	Socket for Flash extension by another 512 kB or addition of Flash disk (M-System) with up to 144 MB

is changed to read:

DIL600 Socket	Socket for Flash extension by another 512 kB, addition of Flash disk from M-Systems (obsolete), or addition of an IDE NAN-Drive™ DIP module (128 MB) from Kontron

3. Reference: Page 2 - 8, Chapter 2.4.2.4

The referenced information is revised as follows.

The section:

2.4.2.4 Memory Expansion Socket (DIL600)

The VMP1 provides one 32-pin DIL socket on which to place SRAM, non-volatile SRAM or other DIL600 devices on the board. Access to this Memory is controlled by the onboard logic.

The following devices may be added to the VMP1 via the 32-pin DIL600 socket:

- Standard Flash memory of up to 512 kB, for example, the AMD29F010 and AMD29F040
- The NV SRAM from Dallas Semiconductor. These devices are available in the temperature range –40°C to +85°C for the industrial environment and guarantee a minimum data retention of 10 years (e.g. DS1250Y-100).
- Disk-on-chip Flash memory. In order to achieve flexibility with low cost, the VMP1 Flash disk is not soldered but connected via a special module from M-Systems (Disk-on-Chip 2000) which comes in the following sizes:

  2 - 24 MB (dimensions 41.7 x 17.9 x 5.6mm);

  4 - 144 MB (dimensions 42.0 x 18.3 x 11.8mm).

is changed to read:

2.4.2.4 Memory Expansion Socket (DIL600)

The VMP1 provides one 32-pin DIL socket on which to place SRAM, non-volatile SRAM or other DIL600 devices on the board. Access to this Memory is controlled by the onboard logic.

The following devices may be added to the VMP1 via the 32-pin DIL600 socket:

- Standard Flash memory of up to 512 kB, for example, the AMD29F010 and AMD29F040
- The NV SRAM from Dallas Semiconductor. These devices are available in the temperature range –40°C to +85°C for the industrial environment and guarantee a minimum data retention of 10 years (e.g. DS1250Y-100).
- M-Systems' DiskOnChip 2000 (obsolete)
- Kontron's IDE NANDrive™ DIP module (128 MB)

4. Reference: Page 2 - 16, Chapter 2.4.3.6, Text

The referenced information is revised as follows.

The text:

A 32-pin DIL600 socket is provided in order to make possible the addition of various memory expansion devices (with access time <120ns). The devices which have been tested and approved for this connector are as follows:-

DIL type Flash memory (up to 512 kB)

DIL SRAM (up to 512 kB) e.g. Samsung KM684000BLP-7

NVSRAM (up to 512 kB) e.g. DALLAS DS1250Y-100)

Eprom (up to 512 kB) e.g. 27C040

M-Systems DiskOnChip 2000 (up to 288 MB)

is changed to read:

A 32-pin DIL600 socket is provided in order to make possible the addition of various memory expansion devices (with access time <120ns).

The devices which have been tested and approved for this connector are as follows:

- DIL type Flash memory (up to 512 kB)
- DIL SRAM (up to 512 kB) e.g. Samsung KM684000BLP-7
- NVSRAM (up to 512 kB) e.g. DALLAS DS1250Y-100)
- Eprom (up to 512 kB) e.g. 27C040
- M-Systems' DiskOnChip 2000 (obsolete)
- Kontron's IDE NANDrive™ DIP module (128 MB)

5. Reference: Page 4 - 4, Chapter 4.1.3

The referenced information is revised as follows.

The section:

4.1.3 Resistor Setting for Non-standard Socket Devices

The default pinout of this socket is designed for use with standard DIL Flashes and M-Systems DiskOnChip. As some devices have a different pinout, resistors must be set accordingly (please see figure 2-4 for an illustration of these resistors on the board)

Table 4-2: Resistor Setting for Various Non-standard Socket Devices

Used Socket Devices	R3	R6	R7	R8	R11	R12	R13
Flash (default)	Open	Open	Open	Set	Set	Open	Set
DiskOnChip (default)	Open	Open	Open	Set	Set	Open	Set
NVSRAM	Open	Open	Set	Open	Set	Set	Open
4 Mbit EPROM	Set	Set	Open	Open	Open	Open	Set

Note: All resistors are 0 ohms

is changed to read:

4.1.3 Resistor Setting for Non-standard Socket Devices

The default pinout of this socket is designed for use with standard DIL Flashes, M-Systems DiskOnChip (obsolete), and IDE NANDrive™ DIP modules from Kontron. As some devices have a different pinout, resistors must be set accordingly (please see figure 2-4 for an illustration of these resistors on the board).

Table 4-2: Resistor Setting for Various Non-standard Socket Devices

Used Socket Devices	R3	R6	R7	R8	R11	R12	R13
Flash / DiskOnChip (obsolete) / IDE NANDrive™ DIP module (default)	Open	Open	Open	Set	Set	Open	Set
NVSRAM	Open	Open	Set	Open	Set	Set	Open
4 Mbit EPROM	Set	Set	Open	Open	Open	Open	Set

Note: All resistors are 0 ohm.

6. Reference: Page 4 - 5, Chapter 4.2.1.1

The referenced information is revised as follows.

The section:

4.2.1.1 Socket Device Selection (Memory Expansion Socket IC8)

A range of different memory devices may be used on the DIL32 socket (e.g. Flashes, NVSRAM, M-Systems Disk-On-Chip, EPROM etc.).

Table 4-4: DIL 32 Pinout for Various Devices

Pin	4Mbit Flash	Disk OnChip	NV SRAM	4Mbit Eprom		4Mbit Eprom	NV SRAM	Disk OnChip	4Mbit Flash	Pin
1	A18	NC	A18	VPP		VCC	VCC	VCC	VCC	32
2	A16	NC	A16	A16		A18	A15	WE_	WE	31
3	A15	NC	A14	A15		A17	A17	NC	A17	30
4	A12	A12	A12	A12		A14	WE	NC	A14	29
5	A7	A7	A7	A7		A13	A13	NC	A13	28
6	A6	A6	A6	A6		A8	A8	A8	A8	27
7	A5	A5	A5	A5		A9	A9	A9	A9	26
8	A4	A4	A4	A4		A11	A11	A11	A11	25
9	A3	A3	A3	A3		OE_	OE_	OE_	OE_	24
10	A2	A2	A2	A2		A10	A10	A10	A10	23
11	A1	A1	A1	A1		CE_	CE_	CE_	CE_	22
12	A0	A0	A0	A0		D7	D7	D7	D7	21
13	D0	D0	D0	D0		D6	D6	D6	D6	20
14	D1	D1	D1	D1		D5	D5	D5	D5	19
15	D2	D2	D2	D2		D4	D4	D4	D4	18
16	GND	GND	GND	GND		D3	D3	D3	D3	17

is changed to read:

4.2.1.1 Socket Device Selection (Memory Expansion Socket IC8)

A range of different memory devices may be used on the DIL32 socket such as Flashes, NVSRAM, M-Systems' Disk-On-Chip (obsolete), Kontron's IDE NANDrive™ DIP module, EPROM etc.

Table 4-4: DIL 32 Pinout for Various Devices

Pin	4Mbit Flash	Disk OnChip	NV SRAM	4Mbit Eprom	NANDrive	NANDrive	4Mbit Eprom	NV SRAM	Disk OnChip	4Mbit Flash	Pin
1	A18	NC	A18	VPP	A18	VCC	VCC	VCC	VCC	VCC	32
2	A16	NC	A16	A16	NC	WE_	A18	A15	WE_	WE	31
3	A15	NC	A14	A15	NC	NC	A17	A17	NC	A17	30
4	A12	A12	A12	A12	NC	NC	A14	WE	NC	A14	29
5	A7	A7	A7	A7	NC	NC	A13	A13	NC	A13	28
6	A6	A6	A6	A6	NC	NC	A8	A8	A8	A8	27
7	A5	A5	A5	A5	NC	NC	A9	A9	A9	A9	26
8	A4	A4	A4	A4	NC	NC	A11	A11	A11	A11	25
9	A3	A3	A3	A3	A3	OE_	OE_	OE_	OE_	OE_	24
10	A2	A2	A2	A2	A2	NC	A10	A10	A10	A10	23
11	A1	A1	A1	A1	A1	CE_	CE_	CE_	CE_	CE_	22
12	A0	A0	A0	A0	A0	D7	D7	D7	D7	D7	21
13	D0	D0	D0	D0	D0	D6	D6	D6	D6	D6	20
14	D1	D1	D1	D1	D1	D5	D5	D5	D5	D5	19
15	D2	D2	D2	D2	D2	D4	D4	D4	D4	D4	18
16	GND	GND	GND	GND	GND	D3	D3	D3	D3	D3	17