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Title:

RC850 Terminal Systems
Hardware Module Structure
Outline and Document Reference

Keywords:

RC850, COI, CRT, DSU, FDI, IML, IOM, KBU, KEY, KTC, MIC, MON, PGR,
RGM, VIM, Hardware Modules, Firmware PROMs, Introduction.

Abstract:

The modular hardware structure of the RC850 terminals is introduced.
Break-down of item code information to hardware module identification.
Outline of modules and document references.

(32 printed pages)

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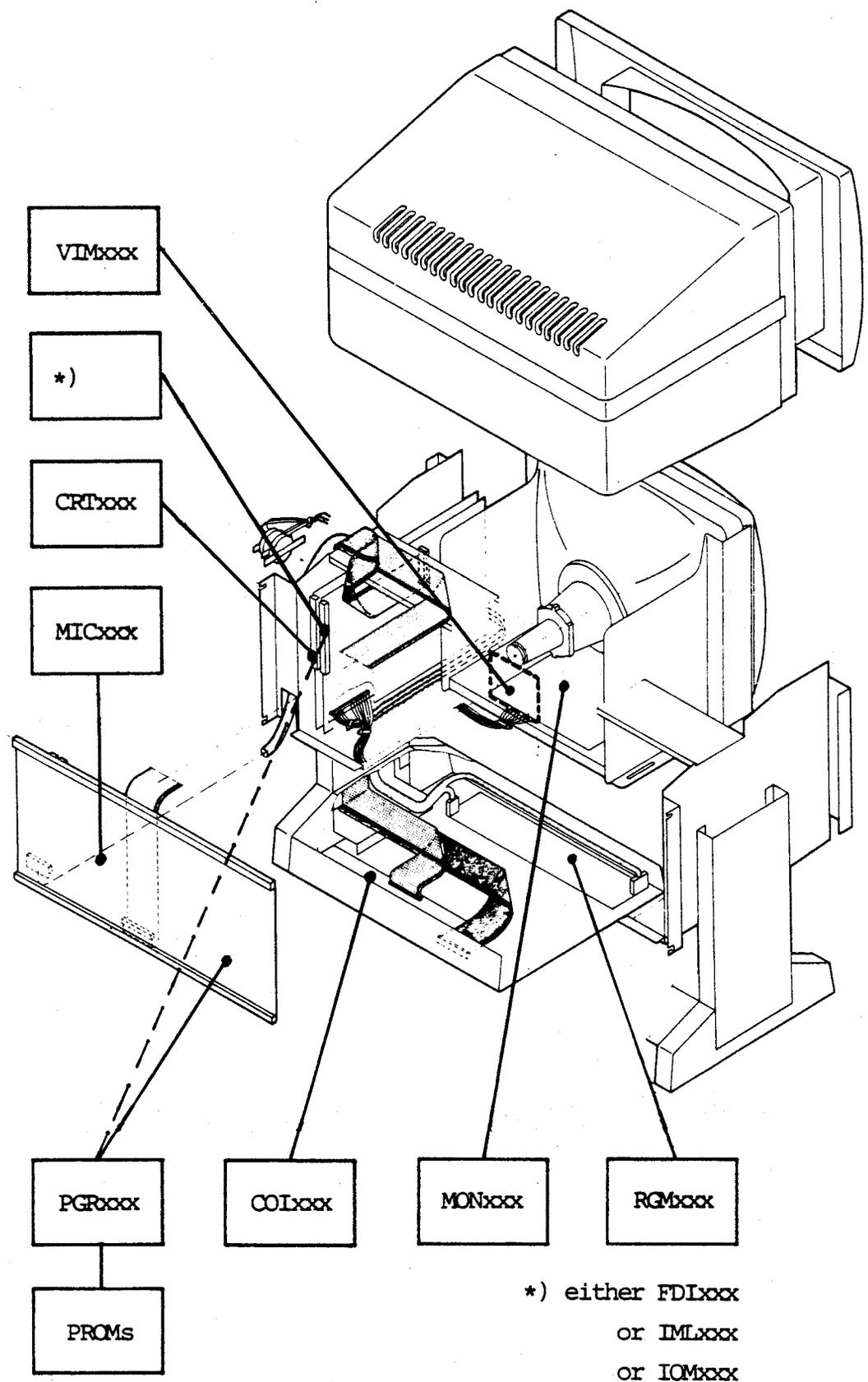
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1. INTRODUCTION

The construction of the RC850 terminals is based on a set of hardware modules.



*) either FDIxxx
or IMLxxx
or IOMxxx
or none

The main modules related to the display unit (DSUxxx) are:

COIxxx - Communication interface
CRTxxx - Display controller
FDIxxx - Flexible disc drive interface
IMLxxx - Image load
IOMxxx - I/O module
MICxxx - Microcomputerboard
MONxxx - Monitor
PGRxxx - Firmware PROMs
RGMxxx - Power supply
VIMxxx - Video module

The terminal's keyboard unit (KBUxxx) likewise is modular based, the main module related hereto being:

KEYxxx - Keytop replacements
KTCxxx - Keyboard controller

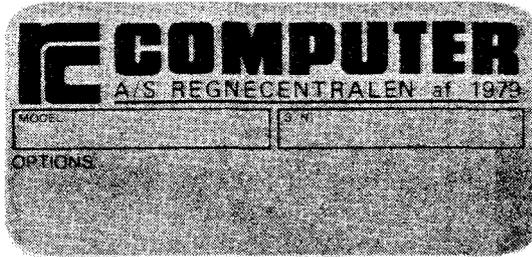
The specific module identification, consisting of <module name> and <module number>, is required to provide access to the technical documentation of the terminals. Document references are found in chapter 3.

Given a terminal, the identification of a specific module is enabled by the information on the terminal's serial number label(s).

2. MODULE IDENTIFICATION

2.

Information from the serial number label(s) is used in determining which specific modules the terminal comprises.



The label is (normally) found on the bottom surface of the tiltable part of the display unit.

The keyboard unit also is labelled on the bottom surface with a serial number label as the above.

If a label directly holds a module identification in the 'OPTIONS' field, such as FDIxxx and PGRxxx, the document reference can be looked up right away in chapter 3. Note that the modules FDI, IML and IOM mutually excludes one another.

The DSUxxx and KBUxxx numbers are used as entries in the tables following whereby the specific module identifications are found and can then be looked up in chapter 3.

| DSU | COI | CRT | MIC | MON | RGM | VIM | PGR | 'OPTION' |
|-----|---------|-----|-----|-----|-----|-----|-------|---------------------------|
| 600 | | | | | | | 501 | |
| 601 | | | | | | | 502 | |
| 602 | | | | | | | 503 | |
| 603 | | | | | | | 504 | |
| 604 | | | | | | | 505 | |
| 605 | | | | | | | 513 | |
| 606 | | 502 | | | | | 506 | IOM501 |
| 607 | | | | | | | 508 | |
| 608 | | | | | | | 509 | |
| 609 | | | | | 502 | 503 | 510 | FDI501 |
| 610 | 502 | 503 | 506 | 592 | & | or | 511 | or |
| 611 | | | | | 503 | 505 | 512 | IML501 |
| 612 | | | | | | | 514 | |
| 613 | | | | | | | 515 | |
| 614 | | | | | | | 516 | |
| 615 | | | | | | | 517 | |
| 616 | | | | | | | 518 | |
| 617 | | | | | | | 519 | |
| 618 | | | | | | | 520 | |
| 619 | | | | | | 504 | [513] | IML501 or FDI501; PGRxxxx |
| 620 | | 502 | | | | 504 | 506 | IOM501 |
| 621 | [503/4] | 506 | 509 | 503 | | | | and COIxxx |
| 622 | 503 | 504 | 507 | 503 | | | | |
| 623 | 503 | 504 | 508 | 504 | | | | FDIxxx |
| 624 | 504 | 505 | 509 | 505 | 502 | | | and |
| 625 | 504 | 505 | 509 | 506 | | | | PGRxxxx |
| 626 | 503 | 505 | 509 | 505 | | | | |
| 627 | 503 | 504 | 508 | 503 | | | | |
| 628 | 503 | 505 | 509 | 506 | | | | |

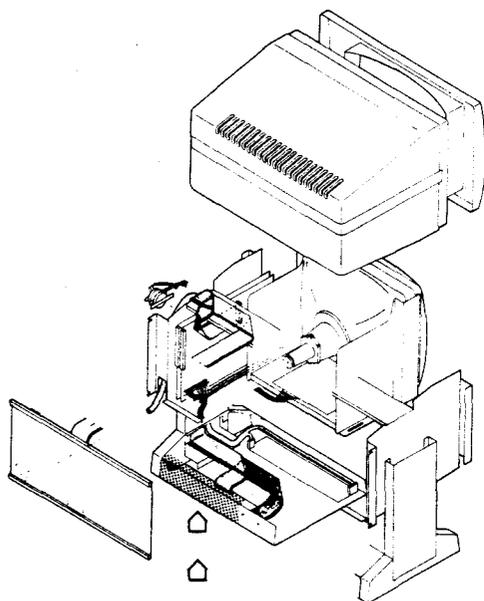
| <u>KBU</u> | <u>KTC</u> | <u>'OPTION'</u> |
|------------|------------|-----------------|
| 516 | 406 | KEYxxx |
| 518 | 402 | |
| 519 | 405 | KEYxxx |
| 521 | 404 | KEYxxx |
| 523 | 408 | |
| 524 | 409 | |
| 525 | 410 | |
| 526 | 411 | |
| 527 | 405 | KEYxxx |
| 528 | 406 | KEYxxx |
| 529 | 404 | KEYxxx |
| 530 | 412 | |

3. OUTLINE AND DOCUMENT REFERENCE

3.

3.1 COI - Communication Interface

3.1



The COI-module is the interface between the microcomputerboard (MIC) and the external communication tasks. Line connections are provided for host system (LINE I), attachment of printer (LINE II (PRINTER)), keyboard (KEYB) and cluster control unit (CIRCUIT or COAX).

The DISKETTE I/O connection is not part of the COI-module, but refers to the FDI-module.

The following describes the connections of the COI503/504 modules: (COI502: see RCSL No 52-AA1066):

LINE I (J4)

| | |
|----|-----------------|
| 1 | FRAME GND |
| 2 | XMT DATA |
| 3 | REC DATA |
| 4 | REQUEST TO SEND |
| 5 | CLEAR TO SEND |
| 6 | DATA SET READY |
| 7 | LOGIC GND |
| 8 | DATA CAR DET |
| 9 | T(A) |
| 10 | I(A) |
| 11 | -,SELECT X.21 |
| 12 | T(B) |
| 13 | - |
| 14 | C(B) |
| 15 | XMT CLOCK |
| 16 | S(B) |
| 17 | REC CLOCK |

LINE II (PRINTER) (J3)

| | |
|----|-----------------|
| 1 | FRAME GND |
| 2 | XMT DATA |
| 3 | REC DATA |
| 4 | REQUEST TO SEND |
| 5 | CLEAR TO SEND |
| 6 | DATA SET READY |
| 7 | LOGIC GND |
| 8 | DATA CAR DET |
| 9 | - |
| 10 | - |
| 11 | - |
| 12 | - |
| 13 | - |
| 14 | - |
| 15 | - |
| 16 | - |
| 17 | - |

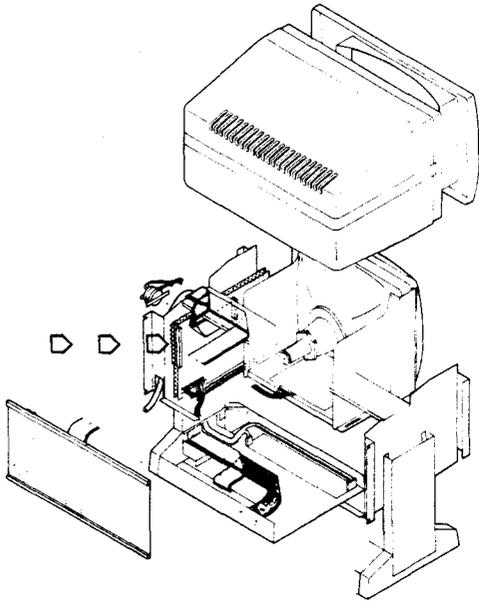
| | |
|----------------------|----------------------|
| 18 S(A) | 18 - |
| 19 R(B) | 19 - |
| 20 DATA TERM READY | 20 DATA TERM READY |
| 21 R(A) | 21 - |
| 22 CALLING INDCIATOR | 22 CALLING INDICATOR |
| 23 - | 23 - |
| 24 I(B) | 24 - |
| 25 C(A) | 25 - |

| <u>KEYBOARD (J1)</u> | <u>CIRCUIT (J2)</u> or | <u>COAX (J2)</u> |
|----------------------|------------------------|------------------|
| 1 - | 1 Line 0 | 1 Line 0 |
| 2 TRM DATA | 2 - | 2 Line 1 |
| 3 0V | 3 Line 1 | |
| 4 REC DATA | | |
| 5 +5V | | |

LINE I complies to V.24/V.28 and X.24/X.27 mixed on the different pins. X.24/X.27 is used for X.21 communication.

LINE II complies to V.24/V.28, ISO 2110.

| <u>Documentation</u> | <u>Note</u> |
|---|-------------|
| COI502: see description in RCSL No 52-AA10544& 1066 | CIRCUIT |
| COI503: RCSL No 30-M322 | CIRCUIT |
| COI504: RCSL No 44-RT2027 | COAX |



The CRT-module is the interface between the microcomputerboard (MIC) and the display monitor (MON).

The module continuously displays the contents of the refresh memory, which is maintained as a copy of the display information bytes in the main memory, and so it releases the CPU of high repetitive operations involved in display controlling.

The VIM-module additionally was applied in terminals with DSU600-620.

The following describes the main components of the CRT-module:

| Name | Use |
|-----------------------|---|
| CRT Address sequencer | Initialize display constants, cursor control. |
| DMA Function register | Selects which display part should be accessed, and starts the transfer. |
| Screen refresh memory | Memory for characters and attributes for every position on the display. |
| Shadow font RAM | Memory for a shadow pattern which is displayed together with the character pattern. |
| Character font ROM | Memory for 128 preloaded character patterns. |

Character font RAM Memory for 256 loadable character patterns (optional).

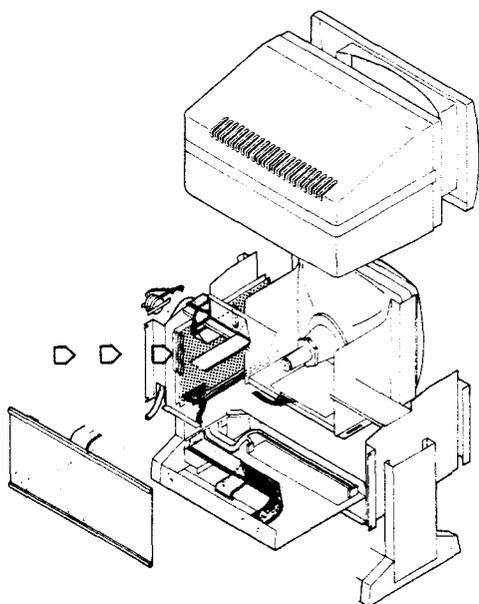
Attribute RAM Memory which converts the attribute bits to the possible light effects.

Display disable A flip-flop which when set turns the e-beam off.

| <u>Documentation</u> | <u>Note</u> |
|--|-------------|
| CRT502: see description in RCSL No 52-AA1054 | 50 Hz |
| CRT503: see description in RCSL No 52-AA1054 | 50 Hz |
| CRT504/506: RCSL No 44-RT2046 | 50 Hz |
| CRT505: RCSL No 44-RT2041 | 60 Hz |

3.3 FDI - Flexible Disc Drive Interface

3.3



The FDI-module is the interface between microcomputerboard (MIC) and the flexible disc drive. Not all of the terminals have this feature.

A cable (KBL511 or CBL960) leads from the FDI to the DISKETTE I/O connector on the terminals rear panel. The KBL511 may substitute CBL960.

The following describes the main components of the FDI-module:

| <u>Name</u> | <u>Use</u> |
|------------------------|---|
| Floppy disc controller | Interfaces the processor to the disc drives, supporting single and double density format and double sided recording. No. of drives supported depends on system software (max. = 4). |
| Data Separator | Extracts the clock signal from the serial bitstream from the drive. |
| Switches | Determination of which kind of drive to handle (5 1/4" or 8") in accordance with the system software. |

DISKETTE I/O connection - signal allocation:

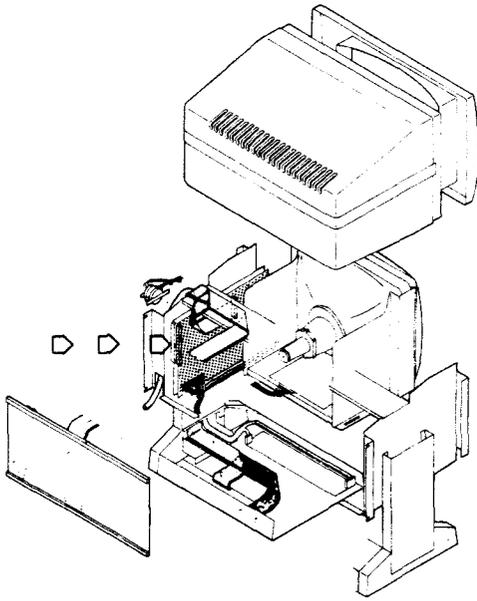
| <u>Pin No</u> | <u>Signal</u> | <u>Direction</u> |
|---------------|----------------|------------------|
| 1 | -, TWO SIDED | from drive |
| 2 | NOT USED | |
| 3 | -, SIDE SELECT | to drive |
| 4 | -, LOW CURRENT | to drive |
| 5 | -, HEAD LOAD | to drive |

| | | |
|----------|------------------------|------------|
| 6 | -, INDEX | from drive |
| 7 | -, READY | from drive |
| 8 | -, MOTOR EN | to drive |
| 9 | -, DRIVE SELECT 0 | to drive |
| 10 | -, DRIVE SELECT 1 | to drive |
| 11 | -, DRIVE SELECT 2 | to drive |
| 12 | -, DRIVE SELECT 3 | to drive |
| 13 | -, DIRECTION SELECT | to drive |
| 14 | -, STEP | to drive |
| 15 | -, WRITE DATA | to drive |
| 16 | -, WRITE GATE | to drive |
| 17 | -, TRACK 0 | from drive |
| 18 | -, WRITE PROT | from drive |
| 19 | -, READ DATA | from drive |
| 20 to 37 | SIGNAL RETURN (0 volt) | |

Documentation

FDI501/502: RCSL No 44-RT2034

Available as a separate document package (DDM160).



The IML-module holds the firmware PROMs not able to be accommodated on the MIC-module.

The IML-module was only applied in terminals with DSU 607-613 & 619, accommodating PGR550/551.

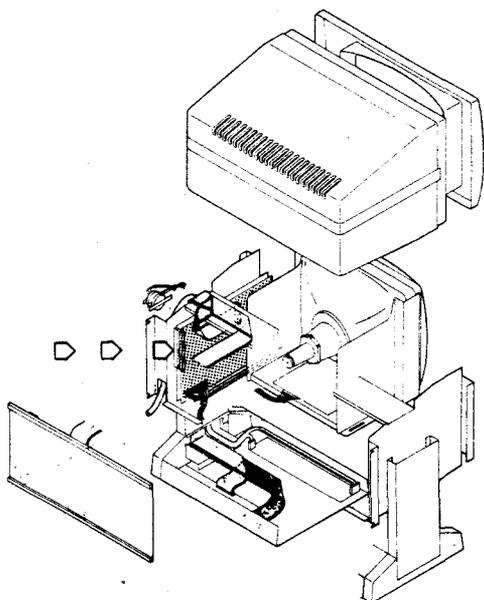
Documentation

IML501: a) tech. manual: RCSL No 52-AA1058

b) other manuals: RCSL No 52-AA1057

RCSL No 52-AA1059

Available as a separate document package (DDM 162).



The IOM-module is a special purpose unit which was only applied in terminals with DSU 606 & 620.

The IOM-module serves as controller for the RC350x interface.

Documentation

IOM501: a) tech. manual: RCSL No 52-AA1044

b) other manuals: RCSL No 52-AA1043

RCSL No 52-AA1028

RCSL No 52-AA1050

Available as a separate document package (DDM 159).

National layouts for the KBU516 & 528 (KTC406), KBU519 & 527 (KTC405) and KBU519 & 529 (KTC404) are obtained by keytop replacements - in their basic versions these KBUs have a Danish layout.

Documentation

No specific documentation is issued - refer to the reference manuals of the terminal systems for description of national layouts (also see RCSL No 42-RT2029 for a general description).

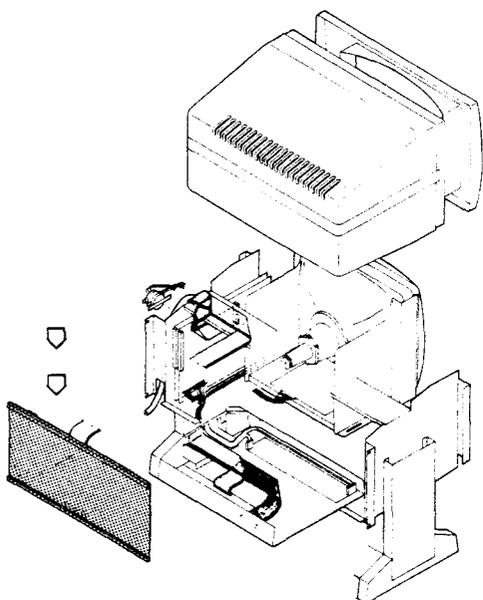
| KEY | KTC404 | KTC405 | KTC406 | Changing layout to |
|-----|--------|--------|--------|---------------------------------|
| 002 | + | + | + | S |
| 003 | + | + | + | US-ASCII |
| 004 | + | + | + | D |
| 005 | + | + | + | UK-ASCII |
| 006 | - | + | - | DK-BIBLIOTEKSCENTRAL |
| 007 | + | + | + | US-ASCII/FRANCE |
| 008 | - | + | - | DK-OS (§) |
| 009 | - | + | - | DK-OS (ü) |
| 010 | - | + | - | Function keys with English text |
| 011 | + | - | - | DK-DSB (, [in numeric pad]) |
| 012 | - | + | - | DK-OS (@) |

Note: One or more KEYxxx replacements are specified as appropriate; for instance: Swedish national alphabetic layout along with function keys with English text engravings requires KEY002 and KEY010.

The KTC-module includes its own microprocessor for scanning of key closures and for conversions pertaining to the information exchange with the terminal's CPU.

| Documentation | Note: |
|---------------|--------------------------------|
| KTC402: | RC853 |
| KTC404: | RC851 D.E. |
| KTC405: | RC852/855 |
| KTC406: | 1) RCSL No 44-RT2029 RC851 TTY |
| KTC408: | [General Description] ITT-UK |
| KTC409: | 2) RCSL No 44-RT2045 ITT-D |
| KTC410: | [Schematic Diagram] ITT-F |
| KTC411: | ITT-DK |
| KTC412: | ITT-B |

Specific national keyboard layouts applying to a given terminal system are found in the reference manual of the terminal system.



The MIC-module contains all central logic functions for operation of the terminal. Also the PGR-modules are contained on this board (cf. section 3.7).

The following describes the main components of the MIC-module:

| Name | Use |
|--------------------------------|---|
| CPU | 4 MHz Z80A microprocessor |
| DMA controller | Direct Memory Access controller used for high speed data transfers directly between memory and peripherals such as CRT-controller, Floppy disc controller and CIRCUIT/COAX-SIO. |
| Counter/Timer Controller (CTC) | Generates Baud rate clocks for asynchronous communication controllers. |
| Serial I/O (SIO) Controller | Two dual channel SIO's are used. One is used for the keyboard and the CIRCUIT/COAX interfaces, the other for the asynchronous printer line and for the async./sync. communication line. |
| RAM memory | 64 K byte main system memory. |
| NVM memory | Non volatile memory which holds information on baud rates, station numbers and other configuration parameters even if the power is switched off. |

ROM memory Up to 56 K bytes Read Only Memory which contain the bootloader, selftest and in some versions a complete program image; see: section 3.7.

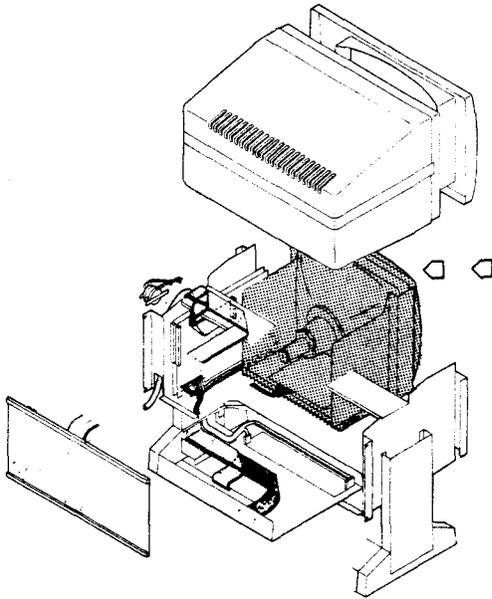
In terminals with DSU607-613 & 619 the IML-module was additionally applied in accommodating the firmware PROMs; see: section 3.4.

Documentation

MIC506: see description in RCSL No 52-AA1054

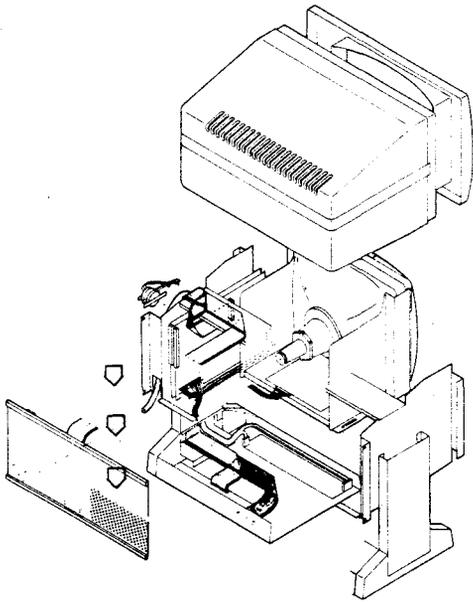
MIC507/508: RCSL No 44-RT2043

MIC509: RCSL No 44-RT2044



The MON-module is based on a 15" cathode ray tube monitor. A separate AC power supply module is incorporated with the monitor.

| <u>Documentation</u> | <u>Note</u> |
|---------------------------|--------------------|
| MON503: RCSL No 44-RT2050 | green/gray, 50 Hz |
| MON504: RCSL No 0-R15322 | amber, 50 Hz |
| MON505: Pending | green, 60 Hz |
| MON506: Pending | amber, 60 Hz |
| MON592: RCSL No 44-RT2051 | green/black, 50 Hz |



The PGR-modules contain the firm-ware PROMs of the terminal, i.e. bootstraploader (BOOT), conversion tables (CONV), selftest (TEST) and other dedicated software (SOFT).

The PGR-modules are accommodated on the MIC-module; in terminals with DSU607-613 & 619 also on the IML-module.

Documentation

No specific manuals are issued - refer to the reference manuals of the terminal system.

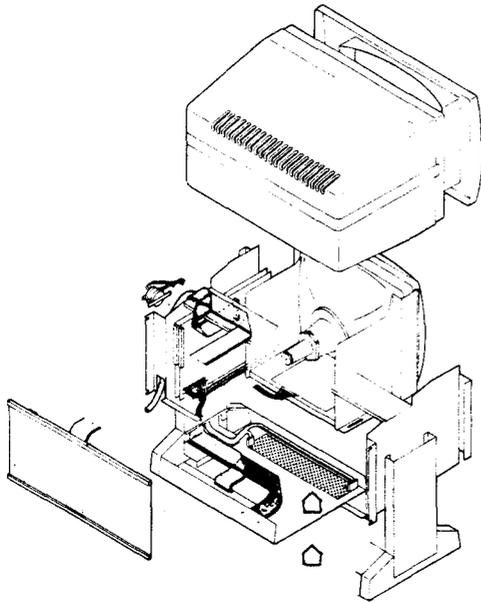
| PGR | Use with | Terminal system | Nationality | B C T S | | | |
|-----|----------|-----------------|-------------|---------|---|---|---|
| | | | | O | N | S | F |
| | | | | T | V | T | T |
| 501 | | RC851 TTY | DK | + | + | - | + |
| 502 | | RC851 TTY | D | + | + | - | + |
| 503 | | RC851 TTY | UK-ASCII | + | + | - | + |
| 504 | | RC851 TTY | US-ASCII | + | + | - | + |
| 505 | | RC851 TTY | S | + | + | - | + |
| 506 | | RC853 | | + | - | - | + |
| 508 | | RC855 | DK | + | + | - | - |
| 509 | MIC506 | RC855 | UK | + | + | - | - |
| 510 | | RC855 | D | + | + | - | - |
| 511 | | RC855 | S | + | + | - | - |
| 512 | | RC855 | US | + | + | - | - |
| 513 | | RC852 | | + | - | - | - |
| 514 | | RC855 | DK-RP | + | + | - | - |
| 515 | | RC855 | DK-OS | + | + | - | - |

| PGR | Use with | Terminal | | Nationality | B C T S | | | | |
|-----|------------|----------|---------------------|----------------|---------|---------|---------|---|------------|
| | | system | | | O O E O | O N S F | T V T T | | |
| 516 | | RC851 | D.E. | DK | + | + | - | + | ROA421-422 |
| 517 | | RC851 | D.E. | S | + | + | - | + | |
| 518 | MIC506 | RC851 | D.E. | US-ASCII | + | + | - | + | |
| 519 | | RC851 | D.E. | D | + | + | - | + | |
| 520 | | RC851 | D.E. | UK-ASCII | + | + | - | + | |
| 521 | | RC851 | D.E. | DK-DSB (TF156) | + | + | - | + | ROB 029 |
| 522 | | RC855 | | DK | + | + | + | - | |
| 523 | | RC855 | | S | + | + | + | - | |
| 524 | | RC855 | | US | + | + | + | - | |
| 525 | | RC855 | | D | + | + | + | - | |
| 526 | | RC855 | | UK | + | + | + | - | |
| 527 | | RC855 | | DK-OS | + | + | + | - | |
| 528 | | N/A | | | | | | | |
| 529 | | N/A | | | | | | | |
| 530 | | N/A | | | | | | | |
| 531 | | N/A | | | | | | | |
| 532 | | N/A | | | | | | | |
| 533 | MIC507/8/9 | N/A | | | | | | | |
| 534 | & | ITT 3290 | | DK | + | + | + | - | |
| 535 | CRT504/6 | ITT 3290 | | S | + | + | + | - | |
| 536 | | ITT 3290 | | US | + | + | + | - | |
| 537 | | ITT 3290 | | D | + | + | + | - | |
| 538 | | ITT 3290 | | UK | + | + | + | - | |
| 539 | | ITT 3290 | | F | + | + | + | - | |
| 540 | | RC851 | TTY | DK | + | + | - | + | |
| 541 | | RC851 | TTY | S | + | + | - | + | |
| 543 | | RC851 | TTY | D | + | + | - | + | |
| 545 | | RC851 | D.E. | DK | + | + | - | + | |
| 546 | | RC851 | D.E. | S | + | + | - | + | |
| 547 | | RC851 | D.E. | US-ASCII | + | + | - | + | |
| 548 | | RC851 | D.E. | D | + | + | - | + | |
| 550 | IML501 | IBM 3270 | BSC EMULATOR, PRIM. | | - | - | - | + | |
| 551 | IML501 | IBM 3270 | BSC EMULATOR, SEC. | | - | - | - | + | |

| PGR | Use with | Terminal | | B C T S | | | |
|-----|------------|--------------|---------------------|---------|---|---|---|
| | | system | Nationality | O | N | S | F |
| | | | | T | V | T | T |
| 552 | | ITT 3287-3 | COAX EMULATOR | - | - | - | + |
| 553 | MIC507/8/9 | IBM 3270 | BSC EMULATOR, PRIM. | - | - | - | + |
| 554 | & | IBM 3270 | BSC EMULATOR, SEC. | - | - | - | + |
| 555 | CRT504/6 | ITT 3290 | B | + | + | + | - |
| 556 | | RC855 | DK | + | + | + | - |
| 557 | | RC855 | S | + | + | + | - |
| 558 | | RC855 | US | + | + | + | - |
| 559 | | RC855 | D | + | + | + | - |
| 560 | | RC855 | UK | + | + | + | - |
| 561 | | RC855 | DK-OS | + | + | + | - |
| 562 | | ITT 3290 | DK | + | + | + | - |
| 563 | MIC507/8/9 | ITT 3290 | S | + | + | + | - |
| 564 | & | ITT 3290 | US | + | + | + | - |
| 565 | CRT505 | ITT 3290 | D | + | + | + | - |
| 566 | | ITT 3290 | UK | + | + | + | - |
| 567 | | ITT 3290 | F | + | + | + | - |
| 568 | | ITT 3290 | B | + | + | + | - |
| 569 | | IBM 3270 | BSC EMULATOR, PRIM. | - | - | - | + |
| 570 | | IBM 3270 | BSC EMULATOR, SEC. | - | - | - | + |
| 571 | | ITT 3287-3 | COAX EMULATOR | - | - | - | + |
| 572 | | RC851 D.E. | DK-DSB (TF156B) | + | + | - | + |
| 573 | MIC507/8/9 | RC851 TTY | DK 5A6 | + | + | + | - |
| 574 | & | RC851 TTY | S | + | + | + | - |
| 575 | CRT504/6 | RC851 TTY | US | + | + | + | - |
| 576 | | RC851 TTY | D | + | + | + | - |
| 577 | | RC851 TTY | UK | + | + | + | - |
| 578 | MIC507/8/9 | TTY EMULATOR | | - | - | - | + |
| 579 | | RC851 TTY | D | + | + | + | - |
| 580 | MIC507/8/9 | RC851 TTY | S | + | + | + | - |
| 581 | & | RC851 TTY | US | + | + | + | - |
| 582 | CRT505 | RC851 TTY | D | + | + | + | - |
| 583 | | RC851 TTY | UK | + | + | + | - |

R0B374

R0B407 (60Hz)



The power supply contains an AC (Alternating Current) and a DC (Direct Current) part.

The AC part include ON/OFF switch, fuse, noise filter, voltage selector and transformer.

The RGM-module supplies DC power to the MIC-, CRT-, FDI-, and COI-module. The MON-module is powered directly from the AC mains supply and includes separate AC to DC converter and regulator.

The RGM-module converts the 2x15V AC supplied by the transformer into several DC voltages:

- 5V (6 A)
- 12V (300 mA)
- 5V (20 mA)
- 12V (250 mA)
- 25V (12 mA)

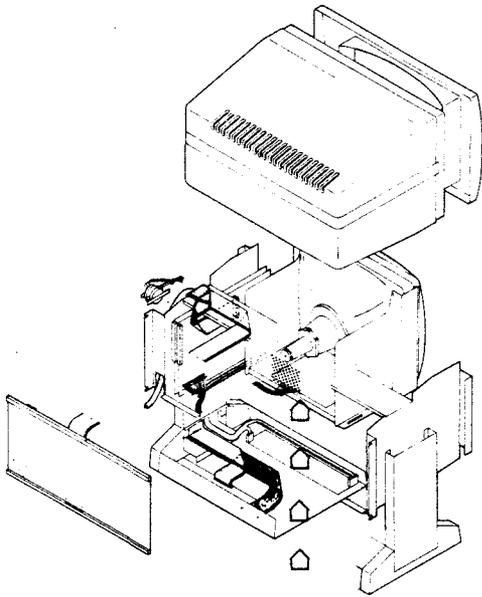
The 5V regulator is a switch mode regulator whereas the other voltages are produced by three thermal IC serial regulators.

In terminals with DSU600-618 the RGM503-module was additionally applied in powering the hight adjustment mechanism. On the later models the RGM502-module is the only power supply module.

Documentation

RGM502: RCSL No 0-A 13999

RGM503: see description in RCSL No 52-AA1054.



The VIM-module performs signal conditioning and pulse shaping for the monitor.

The VIM-module was only applied in terminals with DSU600-620. The functions have been incorporated with the CRT-module on the later models.

MON504 & VIM506 may substitute MON592 & VIM503. The complete replacement set required is MOA511, which includes KBL531 and some other mechanical parts.

Documentation

Note:

| | | |
|---------|--------------------------------------|---------------------|
| VIM502: | see description in RCSL No 52-AA1054 | Not used |
| VIM503: | see description in RCSL No 52-AA1054 | DSU600-618 |
| VIM504: | } RCSL No 0-R13544 | DSU619 & 620 |
| VIM505: | | Substitute for |
| | | VIM503 |
| VIM506: | | MON504 & CRT502/503 |

A. REFERENCES

A.

See throughout chapter 3.

The documentation is available as a package, referred to as DLI022.

A.1 Additional References

A.1

RCSL No 30-M317:

RC850 - TOTEM - Test System, User's Guide

Jan Nielsen, March 1982

Abstract: This manual describes the test system and the test programs for the RC850 terminal. The test programs described in this manual are: The selftest (memory-test), the main memory refresh test, the DMA test, the CRT test, the SIO test and the keyboard test. Further test programs may be described in separate manuals.

RCSL No 30-M321:

RC850 - TOTEM - Test System, User's Guide, Part 2

Jan Nielsen, June 1982

Abstract: This manual describes further test programs for the RC850 terminal, which were not described in the first manual. These test programs are: the X.21 status signal test, the FDC-test, the FDD-test, the NVM-test and the flexible disc drive adjustment program.

RETURN LETTER

Title: RC850 Terminal Systems
Hardware Module Structure
Outline and Document Reference

RCSL No.: 42-i2297

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