R4945A

Specifications

Programmable ROM chips: Various EP/EEPROM chips (described in the socket adapter section)
Buffer memory capacity: 2 Mbytes (16 Mbits)
Program power supply:
V_{CC} power supply: +4.75 V ±0.25 V, 300 mA (max.)
+5 V ±0.25 V, 300 mA (max.)
+5.25 V ±0.25 V, 300 mA (max.)
+6.00 V ±0.25 V, 300 mA (max.)
+6.25 V ±0.25 V, 300 mA (max.)
+6.5 V ±0.25 V, 300 mA (max.)
V_{PP} power supply: +21.0 V ±0.50 V, 100 mA (max.)
+13.0 V ±0.30 V, 200 mA (max.)
+12.75 V ±0.30 V, 200 mA (max.)
+12.5 V ±0.30 V, 200 mA (max.)
+5.0 V ±0.25 V, 50 mA (max.)
Output voltage comparison level:
V_{OL}: +0.50 V ±50 mV (I_{OL} 1.8 mA ±0.2 mA)
V_{OH}: +2.35 V ±100 mV
Standard interface:
Serial I/O interface: RS-232C
Parallel I/O interface: Centronics
Device functions:
Blank check, Programming, Read check, BPR continuous operation, PR continuous operation, Copy/read check, Erase/blank check (EEPROM only), Option, Security
Address mode: Normal mode and page mode
Data mode:
8-bit wide ROM, Normal, 16-bit split
32-bit split (2 split simultaneous write possible)
16-bit wide ROM, normal
32-bit split (data exchange possible)
Program method:
Intel method, Intel quick method, Fujitsu method and other high-speed programming methods
EPROM protection function: Checks for power-down when a device is inserted, opposite direction insertion and erroneous insertion (ON/OFF possible)
Reliability check functions:
V_{CC} margin check (2 points), V_{OL}/V_{OH} level check, Data sum check
Self-diagnostic functions: Internal memory check, System memory check
Manual diagnostic functions:
MUP address check, MUP data check, Program voltage check, Program timing check, Serial I/O check
Alarm functions: Key switch key tone (ON/OFF possible), Pass/fail alarm tone (ON/OFF possible)
Data edit functions: Insert, Delete, Compliment, Block store, Block move, Block search, Block change, RAM clear
Automatic setting functions: ROM type, I/O conditions, Translation format, Various settings (Precheck, Last address stop, Time-out, ID, Alarm ON/OFF), Backedup by EEPROM
Translation format:
DG binary, DEC binary, ASCII HEX, INTELLEC HEX, MOTOROLA S, EXTENDED TEKHEX, ASM-86 HEXADECIMAL, HP64000ABS, TEXTRONIX•HEXADECIMAL

General Specifications
Display: 16 characters × 2 lines
Power requirement: 90 VAC to 250 VAC
Power frequency: 48 to 66 Hz
Enviranment: Temperature 0°C to +40°C, Humidity 85% or less
Storage temperature: -15°C to +60°C
Power consumption: 37 VA or less
Dimensions: Approx. 280(W) × 59(H) × 210(D) mm (excluding socket adapter)
Approx. 280(W) × 78(H) × 210(D) mm (with R49451A mounted)
Mass: 1.5 kg or less (excluding socket adapter)
1.7 kg or less (with R49451A mounted)
Socket Adapter/standard accessory:
R49451A (standard): 32 pin x 2, 40 pin x 1, DIP type
Accessories (Optional)
A01242-200 Connection cable for RS-232C (for PC9801)
A01224 Connection cable for Centronics

Options

Major socket adapters for R4945A (sold separately)

- **R4951A (standard)**: 32-pin x 2, 40-pin x 1, DIP-type
- **R49446A/B/C**: For PLCC
- **R49451C**: Mask pin array, 40-pin, 42-pin, DIP-type
- **R49451D**: Flash ROM
- **R49442C**: 40-pin for one-chip, 8748/8749 series