

OKI

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Description of a fax unit and its circuit functions

1. General description of a fax unit

A fax unit sends a document to remote stations via a regular telephone line on the following procedure.

- 1) A fax unit (transmitter) scans a document to be transmitted.
- 2) A transmitter encodes image data of a document, which is converted into run length codes consisting of 0s, 1s, or both.
- 3) A transmitter modulates the encoded data with a modem, and transmits the modulated data to a remote fax unit (receiver) via a regular telephone line.
- 4) A receiver demodulates and decodes the received data, and prints image data onto paper.

2. The circuit functions of the model F21011A/F21012A

1) CPU

Device : HD6477034F20

Clock frequency : 20.000 MHz

Function : ITU-T T.30 protocol control (facsimile communications protocol)

Modem / NCU control

Encoding / Decoding

2) Modem

Device : MN195004MFN1 (V.34)

Clock frequency : 24.576 MHz

3) Real time clock

Device : NR8576AB

Clock frequency : 32.768 kHz

4) IOGA5

Device : UPD659467GN-022-LMU

Function : Printer/Peripheral control

5) LC82013

Device : LC82103

Function : Scanning control / Image data processing

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- 6) Scanner motor driver
 - Device : SMA7029M(LF1055)
 - Function : Scanning motor driving
- 7) Printer motor driver
 - Device : MTD2005F & A2918SWH
 - Function : Drum / Resist motor driving
- 8) Flash Memory
 - Device : MBM29F800TA-70PFTN
 - MBM29F400TA-70PFTN
 - Function : Program Memory
- 8) DRAM
 - Device : HM5165165LTT-6
 - Function : Work memory

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