

# CompactFlash Card

## HFD10P—xxxR Series

Rev. 1.00

### 概要 Overview

CompactFlash™ HFD10P-xxxxR シリーズは、コントローラチップと不揮発性 NAND フラッシュメモリで構成された CompactFlash™ です。このシリーズでは、512MB~8GB の容量を用意しています。ドライブは、データ転送モード Ultra DMA mode 4(66.6MB/sec)までをサポートしています。

このドライブは、半導体を用いた不揮発性ドライブのため、FA 機器、各種端末、計測機器、券売機など耐環境性を要求される分野に最適です。

The CompactFlash™ HFD10P-xxxGR series is a family of flash memory drives that incorporate a controller chip and nonvolatile NAND flash memory. The series of flash memory drives that incorporate a controller chip and nonvolatile NAND flash memory with an IDE interface. The series consists having capacities of 512MB to 8GB. Each drive supports a range of data transfer modes up to Ultra DMA mode 4 (66.6MB/sec).

These semiconductor-based nonvolatile drives are ideal for ATMs, industrial machines, POS terminals, measuring equipment, ticket vending machines, parking systems, and other applications requiring environmental resistance

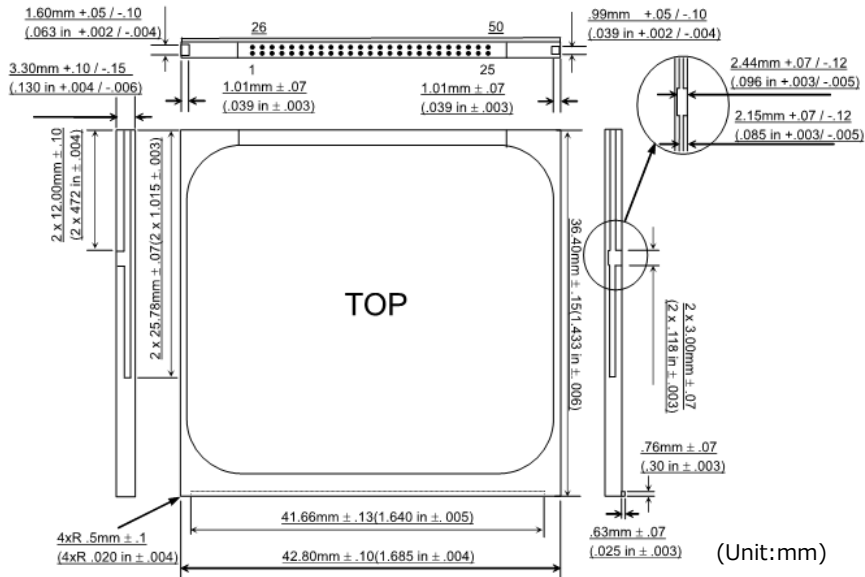
### 特徴 Features

- 容量 / Capacity  
512MB ~ 8GB
- 形状 / Form Factor  
50 ピン 2 ピースコネクタ Type I (厚さ 3.3mm) / 50 pin two piece connector with Type-I form factor (3.3mm Thick)
- CF+ and CompactFlash Specification Revision 6  
3.3V/5V 単一電源動作 / 3.3V or 5.0V single power supply.  
256 バイトアトリビュートメモリ / Support for CIS implemented with 256 bytes of attribute memory
- インターフェース / IDE Interface  
True IDE モード / True IDE mode
- 電源 / Power supply  
VCC 3.3 V ± 5% or 5.0 V ± 10%
- 動作温度 / Operating temperature  
-40~85°C (Industrial grade)
- 性能 / Performance
 

Burst data transfer rate (Drive-Host)	66.6 MB/sec. (Theoretically)
Sustained Read speed	30MB/sec (512MB) 60MB/sec (1GB, 2GB, 4GB, 8GB)
Sustained Write speed	20MB/sec (512MB) 40MB/sec (1GB, 2GB, 4GB, 8GB)
耐衝撃性 / Shock resistance	9800m/s <sup>2</sup> (1000G) (MAX) [非動作状態/non-operating state]
耐振動性 / Vibration resistance	147m/s <sup>2</sup> (15G) peak (20~2000 Hz) [非動作状態/non-operating state]
- 機能 / Functions
  - スタティックウェアレベリング
  - パワーマネジメント機能
  - S.M.A.R.T.(Self Monitoring and Analysis Reporting Technology)によるドライブ寿命管理機能
  - ATA セキュリティ機能によるデータ保護機能

# 外形図

# Package View



# 仕様

# Specifications

シリーズ名/Series Name	HFD10P-xxxxR series
インタフェース/Interface	Parallel ATA [Ultra ATA/66] CFA6.0
フラッシュ/Flash Type	SLC 24nm
フォームファクタ/Form Factor	50 pin two piece connector with Type-I form factor (3.3mm Thick)
容量/Capacity	512MB~8GB
外形寸法/Package view(mm)	42.8 × 36.4 × 3.3
性能/Performance	Burst data transfer rate (Drive-Host):66.6 MB/sec. (Theoretically) Sustained Read speed:30MB/sec (512MB) 60MB/sec (1GB, 2GB, 4GB, 8GB) Sustained Write speed:20MB/sec (512MB) 40MB/sec (1GB, 2GB, 4GB, 8GB)
電源電圧/Power Supply	3.3V±5%/5V±10%
耐衝撃性/Shock resistance	9,800m/s <sup>2</sup> (1,000G) (MAX) [non-operating state]
耐振動性/Vibration resistance	147m/s <sup>2</sup> (15G) peak (20-2,000 Hz) [non-operating state]
保存温度/Storage temperature	-40℃~90℃
動作温度/Operating temperature	-40℃~85℃

# 製品型名

# Product Models

Model No.	Unformatted[MB] *1	Capacity[byte]	Total LBA	Cylinder/Head/Sector
HFD10P-512MR(A00AEI)	484	507,838,464	991,872	984/16/63
HFD10P-A01GR(A00AEI)	967	1,014,128,640	1,980,720	1,965/16/63
HFD10P-A02GR(A00AEI)	1,854	1,944,649,728	3,798,144	3,768/16/63
HFD10P-A04GR(A00AEI)	3,577	3,751,501,824	7,327,152	7,269/16/63
HFD10P-A08GR(A00AEI)	7,393	7,752,794,112	15,142,176	15,022/16/63

\*1 : 出荷時の値となります。実容量はおお客様の環境（フォーマット）によってこの値より小さくなる場合があります。  
Capacity when shipped. The actual capacity (after formatting) in the user environment may be smaller than this value.

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