

CTW Fan Module Connector

COMPACT, COST-EFFECTIVE SOLUTION FOR SWITCH APPLICATIONS

CTW (Card-to-Wire) fan module connector comes with a flexible design for card-to-wire power applications used in fan modules. It allows different wire gauges ranging from 28AWG – 22AWG. The connector provides a maximum current rating of 4A/pin.

CTW fan module connector comprising of standard and smart versions, offers a cost-effective solution with a less airflow drop compared to conventional card-to-board fan connector solutions.

Standard fan module can be easily assembled with a cover and wires can be tidied up. It has optional idle keys for fan model identification and optional light pipe-frame orientation (left/right).

Smart fan module has an IC slot which allows the recording of fan operations through IC, preferably the ST Microelectronics M24C64 series (SO8 (MN) 150 mil width). Provision of an extra pin each on the IC side and on the power side allows for detection and FMLB operations.

- 4A/pin max.
- Wire gauge range from 28AWG – 22AWG
- Standard fan has optional Idle keys for fan model identification
- Optional light pipe-frame orientation



TARGET MARKETS



FEATURES

- Compact power connector with current rating of 4A/pin
- Idle keys option
- Card-to-wire solution
- High temperature housing available in UL 94V-0
- Light pipe-frame orientation option
- Smart fan module has IC slot
- Smart fan module has additional 1 pin each on IC side and power side

BENEFITS

- Conforms to EIA and UL certifications
- Flexible design
- Better cost-effectiveness
- Meets safety requirements
- Additional provisions for design
- Allows the IC to record fan operations
- Allows detection and FMLB (First Mate Last Break) options

TECHNICAL INFORMATION

MATERIAL

- Housing: High Housing: High temperature thermoplastic, UL 94V-0
- Contact: Copper alloy, selective gold plating on contact area, 100u" tin plated on soldering tail, 50u" min nickel under-plated overall

MECHANICAL PERFORMANCE

- Mating Force: EIA-364-13, 550gf max.
- Unmating Force: EIA-364-13, 70gf min.
- Contact Retention Force: 1.5kgf min.

ELECTRICAL PERFORMANCE

- Current Rating: 4A per contact
- Contact Resistance: 10mΩ
- Voltage Rating: 250V AC

PACKAGING

- Housing and Cover: Tray
- Terminal: Reel

SPECIFICATION

- Amphenol Specification: PS-7617

ENVIRONMENTAL

- Thermal shock: EIA-364-32B, No physical damage
- Humidity: EIA-364-31AI, No physical damage
- Temperature life: EIA-364-17, No physical damage
- Salt Spray Test: EIA-364-26A, No physical damage

APPROVALS AND CERTIFICATIONS

- EIA
- UL

TARGET MARKETS/APPLICATIONS



Switches



Server Storage

PART NUMBERS

Description	Pitch	Type	Part Numbers
Fan module housing, 8 pin	2.54mm	Standard	GFMF01HX1X00XXHR
Fan module terminal	2.54mm	Standard	GFMF01TOXR0000HR
Fan module housing, 8 pin cover	2.54mm	Standard	GFMF01C01R0000HR
Fan module housing, 18 pin	2.44mm	Smart	GFMF04H01R0000HR
Fan module terminal	2.44mm	Smart	GFMF01TOXR0000HR
Fan module housing, 18 pin cover	2.44mm	Smart	GFMF02C01R0000HR