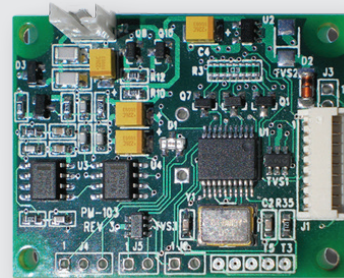




PM-104

FLEAPOWER™ OEM PROXIMITY MODULE



LOCKSETS



VENDING



CUSTOM
READERS



TERMINALS

Pyramid Series Proximity[®]



Frequency: 125 kHz

Read Range: Up to 3 inches (76 mm)



MAXSecure™

Integrated High-Security Technology



Warranty

Lifetime Warranty



Wiegand

Output Interface



FleaPower™

Battery Powered

PM-104 FLEAPOWERTM OEM PROXIMITY MODULE

Optimized for ultra-low power applications, such as those powered by a battery, the PM-104 fleaPower™ OEM Proximity Module is a member of Farpointe's Pyramid Series Proximity® line of 125-kHz proximity devices for access control. Making use of Farpointe's proven digital radio frequency identification (RFID) IP, the PM-104 allows Farpointe partners to embed a small, ultra-low-power proximity reader into their electro or mechanical solutions.

The PM-104's compact design allows it to be embedded in tight places. Physical size is 1.7 W × 1.3 H × 0.41 D (at coil connector) inches (43.2 × 33 × 10.4 mm). The PM-104 is typically capable of delivering non-contact read ranges up to 3 inches (76 mm). It may operate from 3.3 to 12 VDC at a typical maximum current draw of 20 mA, and with a typical sleep mode current draw as low as 5 µA. Standard output format includes open collector Wiegand, with other custom outputs available.

The Pyramid Series line includes a comprehensive selection of proximity access cards and tags that may be used interchangeably, including the PSC-1 Standard Light Proximity Card, the PSI-4 Image Technology Proximity Card, the PSM-2 Multi-Technology Proximity Card, and the PSK-3 Proximity Key Ring Tag.

Specifications	PM-104
Technology	Proximity
Frequency	125 kHz
Mounting	Four holes, one at each corner for simple installation
Dimensions	1.7" W × 1.3" H × 0.41" D (43.2 mm × 33 mm × 10.4 mm)
Voltage ¹	3.3 – 12 VDC, 5 VDC typical
Current (average)	25 µA typical maximum, 5 µA typical during sleep mode 20 mA typical maximum for 100 mSec during card read 200 mA-hrs per year typical given 35,000 card reads per year
Operating Temperature	-22° F to +149° F (-30° C to +65° C)
Card Read Time	150 mSec typical
Read Range (typical) ²	Up to 3 inches (76 mm)
Audio Tone	Supports optional external beeper
LED	Supports optional external four-state LED
Interface	Wiegand (26-bit industry standard & custom). Other custom output available. Output formats are open collector and include a card present line
Compliance	Designed to comply with FCC requirements. OEM is responsible for regulatory and safety approvals.
Warranty	12 months
Technologies Supported	PM-104: Pyramid Series Proximity® Cards and Tags ³ PM-104-H: Pyramid + certain HID® 125-kHz Proximity protocols ⁴ PM-104-A: Pyramid + certain AWID 125-kHz Proximity protocols ⁵ PM-104-H-A: Pyramid + certain HID® 125-kHz Proximity protocols + certain AWID 125-kHz Proximity protocols

NOTES:

- 1 Linear power supplies are recommended for best operation.
- 2 Dependent upon credential used, coil size utilized, module power setting and installation environment.
- 3 Examples may include, and may not be limited to, PSC-1, PSI-4, PSM-2, and PSK-3.
- 4 Examples may include, and may not be limited to, ProxCard II®, ISOProx® II, and ProxKey® II.
- 5 Examples may include, and may not be limited to, CS Prox Card, GR Graphic Card, GRMAG Graphic Mag-Strip Card, PW Prox Wafer, and KT Key Tag.

Pin-Outs:

Connector One – Part: Amp 173981-2 (Male)

PIN	Description
P1-1	COIL A
P1-2	COIL B

Coil:

Recommended Inductance: 700 uH
(Contact Farpointe for more detail).

Connector Two – Part: Molex 53048-910 (Male)

PIN	Description
P2-1	+VDC
P2-2	Ground
P2-3	Beeper Control (Active Low)
P2-4	HOLD Input
P2-5	Card Present Output
P2-6	DATA 0 Output
P2-7	DATA 1 Output
P2-8	Green LED Control (5VDC to 12VDC = ON)
P2-9	Red LED Control (5VDC to 12VDC = ON)

Farpointe Data reserves the right to change specifications without notice.

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