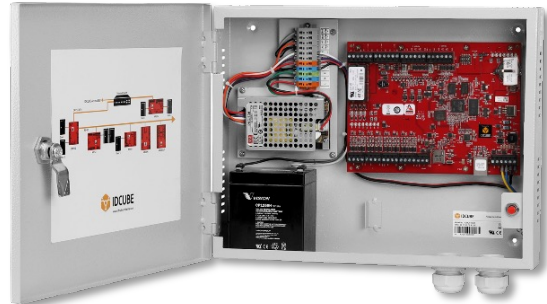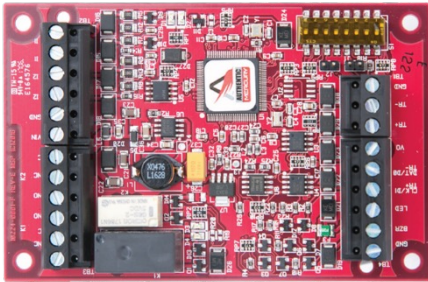# Access Reader Interface Panel (MMR)
ICMMR-50

Reference image only*

The IDCUBE's new MMR Series Serial Input/Output (SIO) panels enable system expansion of MLP series intelligent controllers as part of it's distributed architecture. The enhanced modules offer an improved processor and increased memory, plus feature an embedded crypto memory chip that provides a secured layer of encryption to onboard sensitive data.

The ICMMR-50 panel comprises of an Authentic Mercury MR Series Intelligent reader interface MR-50 along with optional accessories, i.e., UL certified power supply, charging circuit, battery and a tamper switch.

The ICMMR-50 supports one door two reader, two general-purpose input monitor points and two control relays for access control and security monitoring through IDCUBE MLP series Access Control Panel. With two-wire RS-485 connectivity, the ICMMR-50 reader port supports OSDP, OSDP Secure Channel, FICAM government profiles, keypads, biometric readers, Wiegand, clock and data, magnetic stripe, F/2F and supervised F/2F reader technologies. System configuration and setup are provided through IDCUBE Access360 application.

KEY FEATURES

1 door - 2 reader interface panel (OSDP) or 1 door - 1 reader interface panel (Wiegand); 2 general-purpose input monitor points and 2 control relays

AES 128/256 bit data encryption for optimal data protection

HSPD-12/FIPS201 compliant UL 294 recognized, CE compliant, FCC, RoHS

Degradation mode to locally process access request based on facility code verification, even when disconnected from an intelligent controller; up to 8 facility codes may be active in each ICMMR-50

Supports OSDP, OSDP Secure Channel, FICAM government profiles, keypads, biometric readers, Wiegand, clock and data, magnetic stripe, F/2F and supervised F/2F reader technologies

RS-485 host connectivity

I/Os support assignment to door related functions or to general purpose I/O. The inputs support normally open, normally closed, supervised & non-supervised circuits. Output relays are configurable for fail-safe or fail secure operation

12 or 24 V DC input power support

*The panel image illustrates component assembly and may not represent the actual controller board

TECHNICAL SPECIFICATIONS

Characteristic	Parameter
Primary Power	12-24 Vdc +/- 10%, 150mA maximum
Host Communication	RS–485, 2-wire, 4,000' (twisted pair with shield, Belden 9841)
Reader Ports	1 Reader Port*
Card/Keypad Data	OSDP, Clock/Data, Data–1/Data–0, RS-485 or F/2F
Keypad	8-bit Mercury, 8-bit Dorado/HID, 4-bit HID
Reader Power	Input voltage pass-through
LED	One-wire bi-color LED or two-wire LED
Buzzer	Only with 'one-wire' LED
Inputs	2 General Purpose: Programmable circuit type 1 Dedicated: Tamper
Output Relays	Relay 1: Normally open contact (NO): 5A @ 30 Vdc resistive Normally closed contact (NC): 3A @ 30 Vdc resistive Relay 2: 2A @ 30 Vdc resistive
Dimensions	2.75" L x 4.25" W x 1.0" H, (70mm L x 108mm W x 25.4mm H)
Temperature	-40-75 °C operational, -55-85 °C storage
Humidity	5 to 95% RHNC
Standards	UL 294 recognized, CE compliant, RoHS, FCC Part 15 Subpart B
Part Code	ICMMR-50-EXXXXXX[1] (Mercury Controller Part number: MR50)

[1] EXXXXXX refers to enclosure type along with accessories such as power supply, charging circuit, battery, and tamper switch; Please refer enclosure datasheet for details
*Note: A single entry/exit door application (2readers total) can be supported when connected to OSDP readers.

USA
IDCUBE Corporation
20, Corporate Place South, 2nd Floor,
Piscataway, New Jersey – 08854,
USA

IDCUBE Inc
691 S Milpitas Blvd Ste 217
Milpitas CA 95035
CALIFORNIA

UAE
IDCUBE - FZE
Techno Hub 1 – Office G 042,
Dubai Silicon Oasis, Dubai,
UAE

INDIA
IDCUBE Identification Systems Pvt. Ltd.
B-19, Sector-2, NOIDA 201301,
Uttar Pradesh
INDIA

contact@idcubesystems.com | www.idcubesystems.com | +91 120 4130715