tecom

Memory Expansion Module

TS1084

Overview

The TS1084 Memory Expansion Module expands the user capacity of the Challenger10/ChallengerPlus panels to 65,535 users, from the standard 2,000 users, all of whom can have personal identification numbers (PINs).

The module contains two copies of its database: one active copy and one backed up to a microSD card (supplied). During normal operation the TS1084 will check the database on the microSD card to confirm that the active database is not corrupt. If a problem is detected, the module will attempt to repair itself and will continue functioning without interruption. This background self-healing is invisible to uses and provides uncompromising stability.

The microSD card can also be used to quickly restore the user database in case of damage or failure of the TS1084 module. Simply insert the populated microSD card into a replacement TS1084 module. Upon power up, the TS1084 module will restore the database from the microSD card into its running memory. The fact that no user interaction or downloading is required dramatically reduces an installer's time on site.

With a modern 32-bit processor, lookup times for users are halved in comparison with Challenger V8 IUM modules (TS0883/TS0884).

When fitted to a Challenger10 or ChallengerPlus panel, the TS1084 module's firmware can be upgraded remotely via CTPlus configuration software.

If Challenger V8 four-door or four-lift controllers are used on a Challenger10 or ChallengerPlus system with expanded memory, the four-door or four-lift controllers must be fitted with appropriate IUM modules to suit the panel's capacity.

Features

- Increase user capacity of panel
- Self healing
- Contains two copies of its database
- MicroSD card is used to automatically repair the memory module in case of corruption
- Firmware is remotely upgradable
- Increased operating speed compared with legacy IUM modules

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Comparison Chart

	Challenger, no expansion	Challenger, with TS1084
Users (cards)	2,000	65,535
Users with name data	1 - 2,000	N/A
Users with PIN	2,000	65,535
Card data formats	Up to 48-bit	Up to 48-bit

Note: User names are not stored on the panel or memory module when the TS1084 is fitted to the panel. Please ensure that appropriate management software is utilised if user names are required on your system.

Specifications

Operating current	5mA
Regulatory Compliance	ACMA RCM

Ordering information

TS1084	Memory Expansion Module