

Reader Re-Engineering

Technical Changes (Radio) describing differences between the original and new devices.

There are only minor changes to the readers all the mechanical aspects of the readers are the same in that a customer would not be aware if they were using a new or original device. As far a radio is concerned the RFID IC and antenna are the same, it is worth mentioning that the new readers also read HID tokens (though at the same 125kHz frequency as the HITAG tokens that they both read), the only main change is that the microcontroller has changed as per the below table.

The table below details the sales code changes of the products and what hardware has been introduced or changes.

	Old product	New product
Sales codes		
P50 Mullion	345-110-US FCC ID - USEZ99MU10	345-220-US FCC ID - USEZ99MU10
P75	373-110-US FCC ID - USE323110	373-110-US (no change) FCC ID - USE323110
KP75	375-110-US FCC ID - USE323110	375-110-US (no change) FCC ID - USE323110
Radio capabilities		
	Reads 125kHz HITAG format tokens	Reads 125kHz HITAG and HID format tokens
Hardware		
RFID reader IC	NXP HTRC110	NXP HTRC110 (no change)
Antenna for RFID reader	Wound enamelled wire	Wound enamelled wire (no change)
Microcontroller	NXP MC68HC908QY4	NXP LPC1114