



# MOTOROLA RAISES THE BAR ON P25 TWO-WAY RADIO SECURITY

APX™ SERIES AWARDED FIPS 140-2 LEVEL 3 VALIDATION

Validated at Federal Information Processing Standards (FIPS) 140-2 Level 3, our APX™ series of P25 two-way radios is the industry's first to offer government agencies this next level of information assurance.



## WHY FIPS 140-2 LEVEL 3?

In today's world, the better question may be, why not? Over time, advances in technology have enhanced the ability for users to share sensitive information. However, these advances also introduced new threats and increased the ability for an attacker to gain access to this data. As a result, users demand higher security for their data, especially in federal law enforcement, military and other sensitive environments. In many cases, lives depend on it. Motorola has responded with the APX series of P25 portable and mobile radios validated at FIPS 140-2 Level 3 that protects information system (IS) resources from misuse and exploitation while ensuring the integrity and operational capabilities of its intended users.

### FIPS 140-2 LEVEL 3 INCLUDES AND ENHANCES THE SECURITY MECHANISMS PROVIDED BY FIPS 140-2 LEVELS 1 AND 2.

Level 1 defines basic security requirements for cryptographic modules including the use of an approved algorithm and the use of production grade components for physical security.

Level 2 builds on the Level 1 requirements by adding features such as:

- Tamper Evidence: attempts to physically tamper with the encryption module will result in visible damage to the module.
- User Authentication: verifies the role of a user and what functions that role is allowed to perform with the module.

Level 3 encompasses Levels 1 and 2 while increasing security measures with:

- Tamper Detection and Response Mechanisms: detects an attack and provides an active response by preventing access to sensitive data.
- Secured Keyfill: improves protection of keys through encrypted keyfill.
- High Level Design Assurance: ensures high level design, deployment, and radio operation measures are met to deliver proper security implementation.
- Physical Port Separation: separate encryption module ports provide greater security to the keys as they are loaded.

*Certificate (#1536) granted April 28, 2011*



# WHAT DOES LEVEL 3 VALIDATION MEAN TO YOU?

**SIMPLY PUT: HIGHER SECURITY FOR YOUR VOICE AND DATA WHEN USING THE MOTOROLA APX SERIES RADIOS.**

We are dedicated to providing increased security for P25 applications that are exposed to sophisticated adversaries every day. FIPS 140-2 Level 3 will not only detect that an attacker tried to gain access to critical security items, but it also prevents an attacker from gaining access to that data.

Having FIPS 140-2 Level 3 ensures that entry of critical security data is protected and only accessed by authorized personnel.

The APX series P25 radios validated at FIPS 140-2 Level 3 demonstrates our ongoing commitment to developing products that deliver quality, reliability and security for mission critical use.



We continue to be a leading manufacturer in two-way radio security and hold several FIPS 140 security certificates for cryptographic modules.

(See <http://csrc.nist.gov/groups/STM/cmvp/>)

