



# *User's Manual*

## *MFS USB DONGLE*

## **1. DESCRIPTION**

The MFS USB Dongle is a small, USB to RF modem designed to communicate with MFS systems operating in the 915MHz and 2400MHz frequency bands. The standard firmware load enables H-Link connectivity with the PC platform, but it is possible that this firmware be changed for other purposes (Tx / Rx Simulator, etc.).

## **2. FCC AND IC INFORMATION**

**FCC ID Number: LW9-MFSUSBMDM**

**IC ID Number: 2119B-MFSUSBMDM**

*Note: Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.*

*Note: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

*Note: The MFS USB Dongle is shipped with the FCC/IC ID label attached. The FCC/IC ID label must not be removed.*

*Remarque : L'opération est soumise à deux conditions suivantes: (1) ce dispositif ne peut pas causer de brouillage, et (2) ce dispositif doit accepter toute interférence, y compris le brouillage qui peut causer intempestif de fonctionnement du dispositif.*

*Remarque : L'utilisateur est averti que les changements ou modifications non expressément approuvés par la partie responsable de la conformité pourraient annuler l'autorisation l'utilisateur à faire fonctionner l'équipement.*

*Note : Le Dongle USB de MFS est livré avec le label ID FCC/IC attaché. L'étiquette de la FCC/IC ID ne doit pas être supprimé.*

### 3. TECHNICAL SPECIFICATIONS

Temperature Range	-20° to +70° Celsius
Supply Voltage Range	5V USB
Supply Current	<30mA
Outputs	RF: 915MHz and 2400MHz H-Link Data, USB PC Interface
Inputs	RF: 915MHz and 2400MHz H-Link Data, Transmitter Control Data, USB PC Interface

Table 1, Technical Specifications

### 4. ASSEMBLY DESCRIPTION

#### 4.1. Test / Programming Jumper Configuration

N/A – no firmware/software required for operation.

#### 4.2. Operational Jumper Configuration

N/A – no Jumper configurations required for operation.

#### 4.3. Wiring

N/A – no wiring required for operation.

#### 4.4. Glue and Lacquer Masks

N/A – no Glue or Lacquer masks are required for operation.

### 5. Connection Diagram

The device connects to a standard PC/Laptop USB port. Currently, only Windows XP and Windows 7 operating systems are supported.