

FM4500 MOBI views and connectors

FRONT VIEW

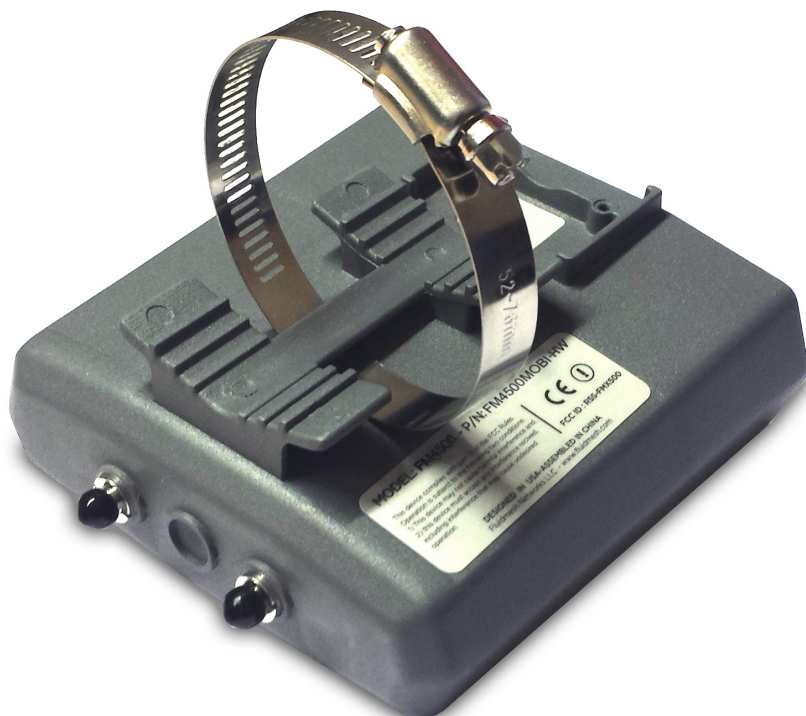


BACK VIEW

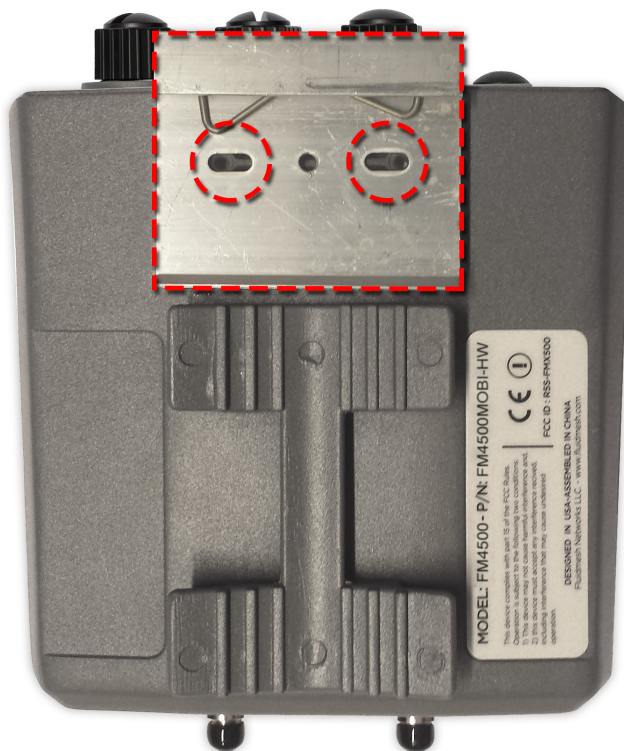


Physical installation

POLE INSTALLATION



DIN RAIL INSTALLATION



Place the DIN mounting plate and fix it through the proper screws.



Power supply

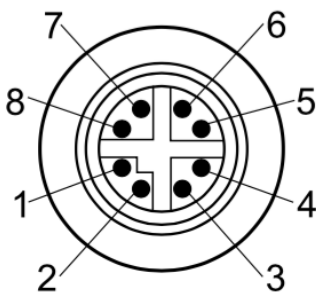
FM4500 MOBI requires a maximum of 20watts @48Vdc can be powered using:

- Standard IEEE 802.3at switch through the **LAN1/PoE** 8-pins M12 port
- Active or Passive 48Vdc PoE (this configuration supports IEEE 802.3.at PoE) through the **LAN1/POE** 8-pins M12 port
- **48Vdc** power supply (not included) through the **DC-IN** 5-pins M12 port

In order to secure proper grounding to the radio and to get reliable connectivity, it is strongly recommended to use **SHIELDED CAT5/6 cables and connectors**.



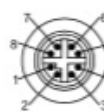
Cable wiring

HOW TO WIRE THE 8 PIN CONNECTORS AND CABLES – Service Lan and Gigabit PoE



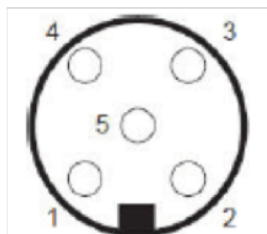
All the FM4500 MOBI manufactured after September 2016 feature a M12 X-Coded Gigabit Ethernet port.

Always use outdoor-rated shielded cables.

M12 to M12	RJ45 to RJ45	M12 to RJ45
 1 = white/orange 2 = orange 3 = white/green 4 = green 5 = white/brown 6 = brown 7 = white/blue 8 = blue	 1 = white/orange 2 = orange 3 = white/green 4 = green 5 = white/brown 6 = brown 7 = white/blue 8 = blue	 1 = white/orange 2 = orange 3 = white/green 4 = green 5 = white/brown 6 = brown 7 = white/blue 8 = blue

HOW TO WIRE THE 5 PIN CONNECTOR AND CABLE – PoE connector

PIN	POWER INPUT
1	V1+
2	V2+
3	V1-
4	V2-
5	GND



Antenna connection

The following example shows a Panel antenna.



Please follow carefully these instructions:

- Wire the QMA cable end on the 4500 and the N male or N female to a surge suppressor (if foreseen) then connect the surge suppressor to the antenna (N-male or N-female cable).
- Apply water insulating material over the RF connectors (e.g. self-shrinking tape)
- Leave the water protection caps on all the unused M12 connectors.
- Install the connectors in vertical position to reduce the possibility of water intrusion
- Always check that the QMA cables are connected to the device, in order to avoid environmental exposition of the connectors.