RF Interconnect for RF Modules and M2M Applications
Amphenol RF is a leading interconnect supplier to manufacturers of radio frequency (RF) modules used in M2M applications. Our expertly engineered products provide superior RF performance for today’s M2M technologies including wireless monitoring, mesh networking, telemetry systems, and automated industrial control applications. We also offer small form factor products ideal for wearable technology and IoT applications.
The Internet of Things (IoT)

- M2M related technologies are already in place and the market has massive potential for growth.
- Operators, integrators and vendors have expressed the strong desire to standardize the end to end M2M service platform.
Wireless Module Connections

- Specialize in getting from board to antenna
- SMA, SMB, and TNC connectors/adapters offered in IP67, IP68 in mated and unmated conditions
- PCB connectors available with integrated switch
- Jumpers available with microcoax, RG174, RG316
- Cable assemblies available for system integrators
- Custom cable assemblies and other solutions available
M2M Applications

FLEET MANAGEMENT
Cargo Tracking / Stock Management
Temperature Control / Route Planning
Order Tracking / Vehicle Diagnostics

SECURITY & SURVEILLANCE
Public Surveillance / Assent
Monitoring / Congestion & Movement
Monitoring Urban Management

TELEMETRY
Utility Meters / Parking Meters
Industrial Meters / Elevators
Vending Machines

SALES AND PAYMENT
POS Terminals / Vending Machines / Gaming & Entertainment / Kiosks

TELEMATICS / VEHICLE
Navigation / Traffic / Weather Info / Road Safety / Vehicle Diagnostics / Location Services

SERVICE & MAINTENANCE
Industrial Machines / Vending Machines

HOME
Heating Control / Electrical Appliances
Alarms & Security / Surveillance Cameras
Garage & Garden

E-HEALTH
Patient Monitoring / Remote Diagnostics
Activity Monitoring / Lifestyle Suggestions
Personal Security

Amphenol® RF
Wireless LAN (WLAN)

Market Products
- Access Points
- Mobile Devices

RF solutions
- AMC
- AMMC
- MCX
- MMCX
- SMA, RP-SMA
- Jumpers/Cable Assemblies
RFID Market

Market Products
- RFID Readers
- RFID Assemblies

RF solutions
- AMC, AMMC
- MCX, MMCX
- TNC, RP-TNC
- FAKRA
- Jumpers/Cable Assemblies
- Gangmate Solutions
Telematics/Fleet Management

Market Products
• Asset Tracking
• Infotainment

RF solutions
• AMC, AMMC
• MCX, MMCX
• SMA, RP-SMA
• TNC, RP-TNC
• FAKRA
• Jumpers/Cable Assemblies

Amphenol® RF
Industrial

Market Products

• Payment Systems
• Security
• Medical

RF solutions

• AMC, AMMC
• MCX
• MMCX
• SMB
• Jumpers

Amphenol® RF
# Applications and Products Summary

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<th>Product Solutions</th>
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<td>MCX, MMCX</td>
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<td>Modems</td>
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<td>Mobile Devices</td>
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<td>RFID Readers</td>
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<td>Navigation Systems</td>
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<td>Payment Systems</td>
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<td>Wireless Monitoring (E-Health)</td>
<td>SMB</td>
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<td>Jumpers, Cable Assemblies</td>
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# Electrical Specifications

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<th>Interface</th>
<th>AMMC</th>
<th>AMC</th>
<th>MMCX</th>
<th>MCX</th>
<th>SMA</th>
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<tbody>
<tr>
<td>Impedance</td>
<td>50 Ohm</td>
<td>50 Ohm</td>
<td>50 Ohm</td>
<td>50 or 75 Ohm</td>
<td>50 Ohm</td>
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<tr>
<td>Frequency Range</td>
<td>DC to 6GHz</td>
<td>DC to 6GHz</td>
<td>DC to 6GHz</td>
<td>DC to 6GHz</td>
<td>DC to 18GHz</td>
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<tr>
<td>Insulation Resistance</td>
<td>500 MΩ IN.</td>
<td>500 MΩ IN.</td>
<td>1,000 MΩ IN.</td>
<td>10,000 MΩ IN.</td>
<td>5,000 MΩ IN.</td>
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<tr>
<td>Contact Resistance</td>
<td>Center: &lt;=20mΩ Outer: &lt;=10mΩ</td>
<td>Center: &lt;=20mΩ Outer: &lt;=10mΩ</td>
<td>Center: &lt;= 10mΩ Outer: &lt;= 5mΩ</td>
<td>Center: &lt;= 5mΩ Outer: &lt;= 2.5mΩ</td>
<td>Center: &lt;= 2mΩ Outer: &lt;= 2mΩ</td>
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<tr>
<td>Dielectric W/standing Volt.</td>
<td>200 VRMS</td>
<td>200 VRMS</td>
<td>500 VRMS</td>
<td>1000 VRMS</td>
<td>1000 VRMS</td>
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