



RF Interconnect for RF Modules and M2M Applications

RF Interconnect for RF Modules

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.



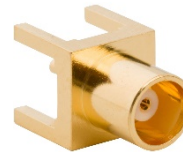
AMMC



AMC



MMCX



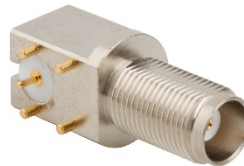
MCX



FAKRA



SMA



TNC



Adapters



Cable Assemblies

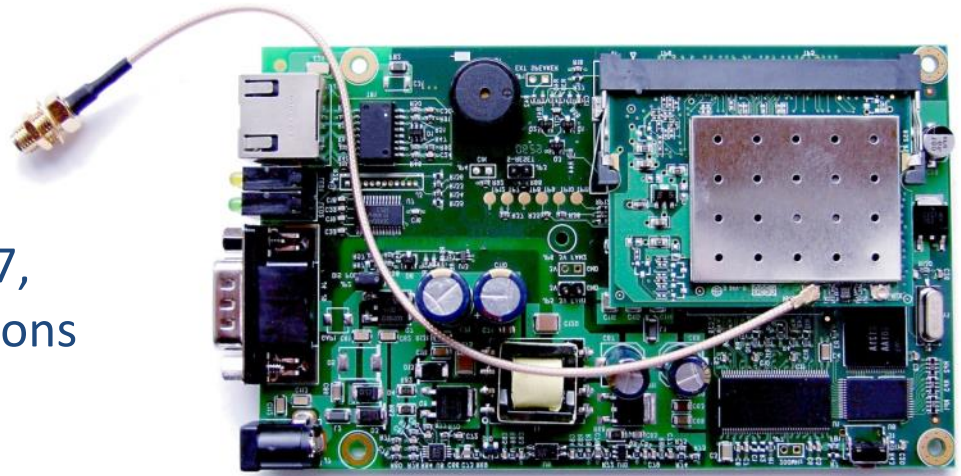
The Internet of Things (IoT)

- 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

TELEMATICS / VEHICLE

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

HOME

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

SALES AND PAYMENT

POS Terminals / Vending
Machines / Gaming &
Entertainment / Kiosks

SERVICE & MAINTENANCE

Industrial Machines / Vending
Machines

E-HEALTH

Patient Monitoring / Remote Diagnostics
Activity Monitoring / Lifestyle Suggestions
Personal Security



Wireless LAN (WLAN)

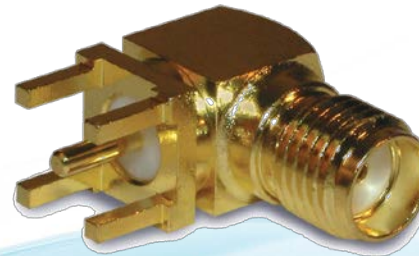
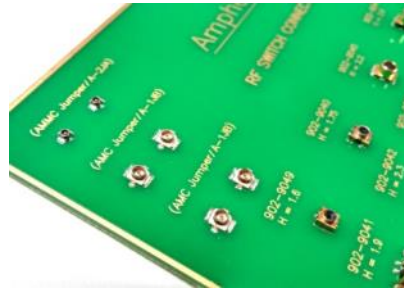
Market Products

- Access Points
- Mobile Devices



RF solutions

- AMC
- AMMC
- MCX
- MMCX
- SMA,RP-SMA
- Jumpers/Cable Assemblies



RFID Market

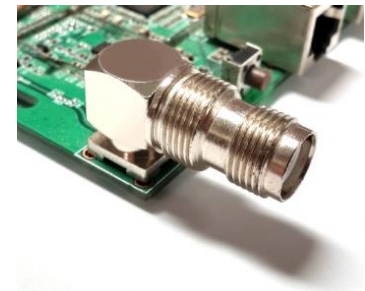
Market Products

- RFID Readers
- RFID Assemblies



RF solutions

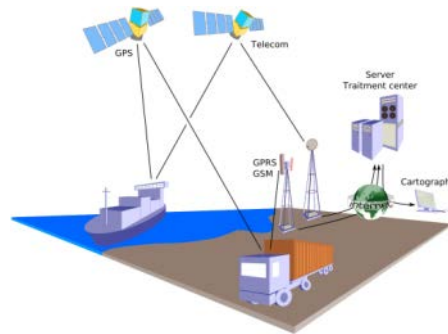
- AMC, AMMC
- MCX, MMCX
- TNC, RP-TNC
- FAKRA
- Jumpers/Cable Assemblies
- Gangmate Solutions



Telematics/Fleet Management

Market Products

- Asset Tracking
- Infotainment



RF solutions

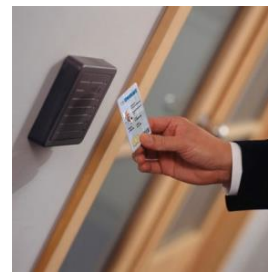
- AMC, AMMC
- MCX, MMCX
- SMA, RP-SMA
- TNC, RP-TNC
- FAKRA
- Jumpers/Cable Assemblies



Industrial

Market Products

- Payment Systems
- Security
- Medical



RF solutions

- AMC, AMMC
- MCX
- MMCX
- SMB
- Jumpers



Applications and Products Summary

Market	Applications	Product Solutions
Wireless LAN	Access Points	AMC, AMMC
	Routers	MCX, MMCX
RFID	Modems	SMA, RP-SMA
	Mobile Devices	Jumpers, Cable Assemblies
RFID	RFID Readers	AMC, AMMC
	Stock Management	FAKRA
Telematics Fleet Management	Cargo Tracking	MCX, MMCX
	Asset Tracking	TNC, RP-TNC
Telematics Fleet Management	Industrial Meter Reading	Jumpers, Cable Assemblies
	Navigation Systems	AMC, AMMC
Industrial	Automotive Telemetry	FAKRA
	Payment Systems	MCX, MMCX
Industrial	Security Networks	SMA, RP-SMA
	Wireless Monitoring (E-Health)	TNC, RP-TNC
Industrial		Jumpers, Cable Assemblies
		AMC, AMMC
Industrial		MCX, MMCX
		SMB
Industrial		Jumpers, Cable Assemblies
		AMC, AMMC

Electrical Specifications

Electrical Specifications					
Interface	AMMC	AMC	MMCX	MCX	SMA
Impedance	50 Ohm	50 Ohm	50 Ohm	50 or 75 Ohm	50 Ohm
Frequency Range	DC to 6GHz	DC to 6GHz	DC to 6GHz	DC to 6GHz	DC to 18GHz
Insulation Resistance	500 MΩ IN.	500 MΩ IN.	1,000 MΩ IN.	10,000 MΩ IN.	5,000 MΩ IN.
Contact Resistance	Center: ≤20mΩ Outer: ≤10mΩ	Center: ≤20mΩ Outer: ≤10mΩ	Center: ≤ 10mΩ Outer: ≤ 5mΩ	Center: ≤ 5mΩ Outer: ≤ 2.5mΩ	Center: ≤ 2mΩ Outer: ≤ 2mΩ
Dielectric W/standing Volt.	200 VRMS	200 VRMS	500 VRMS	1000 VRMS	1000 VRMS

Thank You!

For more information, visit
www.mouser.com/amphenolrf/