

machine to machine

RF Solutions

TNC

Custom Cable Assemblies

RF Switches

SMA

AMC (U.F.L)

N

features and benefits

Rugged Design for Extreme Environments

Sealed for Outdoor Weather Application

Diverse Product Line

applications

Medical

Fleet and Asset Monitoring

Facility Management

Building Automation

Automatic Meter Reading



Amphenol[®] RF

Global RF Solutions

Machine to Machine

Machine to Machine technology, or M2M, refers to data communication between machines. It is based on legacy telemetry technology and is used for automatic transmission and measurement of data from remote sources. While computers and cell-phones have long been communicating together efficiently, the M2M market looks to connect other devices into this network of information. It is estimated that there are over 38 billion other electronic devices in the world that have information that can perhaps improve the operation and flow of various corporations and institutions.

Products

AMC: Amphenol manufactures a family of Amphenol Micro Coaxial (AMC) Connectors for use in applications with 50 Ω impedance requirements. AMC connectors are low profile (2.5 mm of the board) and offer an extremely small board footprint (3mm x 3mm).

IP Sealed: Our products are sealed to ensure performance in all weather applications. International Standard IEC 60529 outlines a classification system that describes the sealing characteristics and strengths of electrical equipment. This system uses the "IP" code to define level of the seal, followed by two digits. The first digit designates the degree of protection against solid foreign objects from entering the device, while the second number indicates the protection against moisture. IP classification has been adapted to also determine the level of seal in passive electrical components.

Applications

Medical

Machine to Machine technology can be used by system integrators to collect data from remote diagnostic equipment. M2M technology is increasingly used in early warning mechanisms to monitor larger devices such as MRI units and CT scanners.

Fleet and Asset Monitoring

These systems can be used to control vehicle controllers wirelessly. They can, for example, be used to monitor a vehicle fleet making deliveries, or conducting ground operations at an airport. These monitoring systems can extend to remote shut-down of a vehicle in case of an emergency.

Facility Management

A building supervisor can use M2M to monitor equipment operation as well as energy use and maintenance. This can in turn be used to optimize operations and reduce overall cost. The status of portable fire extinguishers can also be wirelessly monitored via machine to machine technology.

Building Automation

In these "Smart Buildings", M2M allows different components of the building – air-conditioning, security, and more – to work as one unit instead of a collection of incongruent components.

Automatic meter reading (AMR)

AMR allows for the automatic, off site, real time collection of data from water meter or energy metering devices. This data, be it diagnostic or otherwise, is transferred to a central database and is then used for analyzing, billing, and troubleshooting. There is no need for a worker to come to the home anymore, saving the company the expense. AMR technology includes mobile and network technologies which are based on wired and wireless telephony platforms, as well as RF and power-line transmission.