

# ARRIS Wireless Solutions

## Wireless Modem WM550



### Application

The ARRIS Wireless Modem WM550 is based on DOCSIS® 2.0 certified technologies that deliver advanced high-speed data services over DOCSIS compatible wireless networks. With an optimized design, it meets operators' objective of maximizing revenue by providing an efficient, stable design. Consumers appreciate that it is easy to install, has superior throughput and is packaged in an attractive, space-saving design. No other modem delivers as many features at such a competitive price.

### Packaging Innovation

Consumers gravitate towards products that take up less space, so the WM550 is designed to be both compact and flexible in how it can be positioned in a home. The unit has a built in 'kickstand' that swivels out to hold the unit in a vertical position. No separate, makeshift snap-on stand is needed. It also can be placed horizontally if preferred. Finally, the WM550 provides a simple means for the subscriber to move the cable modem completely off their desk. The unit has built-in mounting holes that allow the unit to be hung vertically or horizontally on the wall.

### Latest Generation Silicon

Based on the latest generation of silicon in the industry today, the ARRIS WM550 is capable of exceeding the higher bandwidth requirements needed by operators. An improved MIPS core coupled with ARRIS extensive software experience allows operators to realize performance improvements of up to 70%. This translates to better operation, lower CPU utilization rates, and improved bi-directional data performance. And, with an improved scanning algorithm over the previous modem generation, the WM550 will typically range and register within 5 minutes – often more quickly than that, depending on downstream frequency.

### Bridged Interface

The ARRIS WM550 have a bridged Ethernet and USB interface that allows subscribers to use two PCs simultaneously with a single cable modem. This eliminates the need for additional equipment in a two-computer household. It also enables subscribers who require more networking ability to use a home router to support up to 16 PCs via the Ethernet port.

### Environmentally Friendly ARRIS "Green"

With the European Restriction of Hazardous Substances (RoHS) directive in place, ARRIS is pleased to provide a wireless modem that exceeds the RoHS directive. Going beyond the present European directive to remove lead and other heavy metals, ARRIS has increased our focus by removing other environmentally impacting materials from the packaging, cables, etc.

- **Selectable modulations for increased distance and reliability**
- **Provides best-in-class subscriber experience**
- **Easy to install**



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### Specifications

**Physical:** Operating Temperature °F (°C).....41 to 104 (5 to 40)  
 Storage Temperature °F (°C)..... -40 to 158 (-40 to 70)  
 Relative Humidity (Min.-Max.) (Non condensing)..... 5-85%  
 Color ..... Dark Grey  
 Dimensions (H x W x D) in. (cm)..... 6.8 x 6.4 x 1.2  
 (17.2 x 16.3 x 3.0)  
 Weight lbs. (kg)..... .8 (.35)  
 Diagnostic LEDs..... Power, DS, US,Online, Link

**Interfaces:** RF Interface ..... F-type  
 Data Interfaces..... 10/100 Base-T Ethernet (RJ-45 )  
 USB 1.1 Series B connector  
 Input Power..... 90-132 V ac, 47-63 Hz, 9 Watts  
 User Switch..... Standby

**RF Downstream:** Frequency Range (MHz).....54-860  
 Bandwidth (MHz).....6  
 Modulation (QAM).....QAM64, QAM16, QPSK  
 Data Rate (Mbps) (Max.) ..... 30, 20, 10  
 Input Impedance (Ohms) ..... 75  
 RF Input Sensitivity Level (dBmV). approx. -27 (64QAM) to +15

**Upstream:** Frequency Range (MHz).....5 to 42  
 Bandwidth ..... : 200, 400, 800, 1600,3200,6400 KHz  
 S-CDMA: 1600,3200,6400 KHz  
 Modulation QPSK, 8QAM, 16QAM, 32QAM, 64QAM  
 Data Rate (Mbps) (Max.) ..... Up to 6.4Mbps  
 RF Output Level (dBmV)  
 A-TDMA: ..... +8 to 55dBmV (8QAM, 16QAM)  
 +8 to 58 dBmV (QPSK)  
 S-CDMA:.....+8 to +53 dBmV (all modulations)  
 Automatic Level Adjust.....Yes  
 Gain Control Range (dB)......50  
 Frequency Stability (kHz) ..... +/- 5  
 Output Impedance (Ohms)......75

**Standards:** Based on DOCSIS 2.0 certified technology  
 UL® 60950  
 FCC Part 15 Class B  
 CE  
 RoHS Compliant  
 WHQL  
 USB-IF

### Ordering Information

#### ARRIS Wireless Cable Modem WM550

North American 110V ..... 620350  
 European 220V ..... 620351  
 UK 230V ..... 620352  
 Australia 220V ..... 620353

#### Accessories:

Shielded Ethernet Cable ..... 620400

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